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(54) Title: MOLECULAR TOXICOLOGY MODELING

(57) Abstract: The present invention is based on the elucidation of the global changes in gene expression and the identification of toxicity markers in tissues or cells exposed to a known renal toxin. The genes may be used as toxicity markers in drug screening and toxicity assays. The invention includes a database of genes characterized by toxin-induced differential expression that is designed for use with microarrays and other solid-phase probes.





02/095000 A2

#### MOLECULAR TOXICOLOGY MODELING

INVENTORS: Donna MENDRICK, Mark PORTER, Kory JOHNSON, Brandon HIGGS, Arthur CASTLE, and Michael ELASHOFF

### **RELATED APPLICATIONS**

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This application claims priority to U.S. Provisional Applications 60/292,335; 60/297,523; 60/298,925; 60/303,810; 60/303,807; 60/303,808; 60/315,047; 60/324,928; 60/330,867; 60/330,462; 60/331,805; 60/336,144; 60/340,873; 60/357,843; 60/357,842; 60/357,844; 60/364,134; 60/370,206; 60/370,247; 60/370,144; 60/371,679; and 60/372,794, all of which are herein incorporated by reference in their entirety. This application is also related to U.S. Application Nos. 09/917,800 and 10/060,087, both of which are also herein incorporated by reference in their entirety.

# SEQUENCE LISTING SUBMISSION ON COMPACT DISC

The Sequence Listing submitted concurrently herewith on compact disc is herein incorporated by reference in its entirety. Four copies of the Sequence Listing, one on each of four compact discs are provided. Copy 1, Copy 2 and Copy 3 are identical. Copies 1, 2, and 3 are also identical to the CRF. Each electronic copy of the Sequence Listing was created on May 22, 2002 with a file size of 3088 KB. The file names are as follows: Copy 1- gl5089wo.txt; Copy 2- gl5089wo.txt; CRF- gl5089wo.txt.

### **BACKGROUND OF THE INVENTION**

The need for methods of assessing the toxic impact of a compound, pharmaceutical agent or environmental pollutant on a cell or living organism has led to the development of procedures which utilize living organisms as biological monitors. The simplest and most convenient of these systems utilize unicellular microorganisms such as yeast and bacteria, since they are the most easily maintained and manipulated. In addition, unicellular screening systems often use easily detectable changes in phenotype to monitor the effect of test compounds on the cell. Unicellular organisms, however, are inadequate models for estimating the potential effects of many compounds on complex multicellular animals, as they do not have the ability to carry out biotransformations.

The biotransformation of chemical compounds by multicellular organisms is a significant factor in determining the overall toxicity of agents to which they are exposed. Accordingly, multicellular screening systems may be preferred or required to detect the

toxic effects of compounds. The use of multicellular organisms as toxicology screening tools has been significantly hampered, however, by the lack of convenient screening mechanisms or endpoints, such as those available in yeast or bacterial systems. Additionally, previous attempts to produce toxicology prediction systems have failed to provide the necessary modeling data and statistical information to accurately predict toxic responses (e.g., WO 00/12760, WO 00/47761, WO 00/63435, WO 01/32928, and WO 01/38579).

### **SUMMARY OF THE INVENTION**

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The present invention is based on the elucidation of the global changes in gene expression in tissues or cells exposed to known toxins, in particular renal toxins, as compared to unexposed tissues or cells as well as the identification of individual genes that are differentially expressed upon toxin exposure.

In various aspects, the invention includes methods of predicting at least one toxic effect of a compound, predicting the progression of a toxic effect of a compound, and predicting the renal toxicity of a compound. The invention also includes methods of identifying agents that modulate the onset or progression of a toxic response. Also provided are methods of predicting the cellular pathways that a compound modulates in a cell. The invention also includes methods of identifying agents that modulate protein activities.

In a further aspect, the invention includes probes comprising sequences that specifically hybridize to genes in Tables 1-5. Also included are solid supports comprising at least two of the previously mentioned probes. The invention also includes a computer system that has a database containing information identifying the expression level in a tissue or cell sample exposed to a renal toxin of a set of genes comprising at least two genes in Tables 1-5.

### **DETAILED DESCRIPTION**

Many biological functions are accomplished by altering the expression of various genes through transcriptional (e.g. through control of initiation, provision of RNA precursors, RNA processing, etc.) and/or translational control. For example, fundamental biological processes such as cell cycle, cell differentiation and cell death, are often characterized by the variations in the expression levels of groups of genes.

Changes in gene expression are also associated with the effects of various chemicals, drugs, toxins, pharmaceutical agents and pollutants on an organism or cell. For example, the lack of sufficient expression of functional tumor suppressor genes and/or the over expression of oncogene/protooncogenes after exposure to an agent could lead to tumorgenesis or hyperplastic growth of cells (Marshall (1991), Cell 64: 313-326; Weinberg (1991), Science 254: 1138-1146). Thus, changes in the expression levels of particular genes (e.g. oncogenes or tumor suppressors) may serve as signposts for the presence and progression of toxicity or other cellular responses to exposure to a particular compound.

Monitoring changes in gene expression may also provide certain advantages during drug screening and development. Often drugs are screened for the ability to interact with a major target without regard to other effects the drugs have on cells. These cellular effects may cause toxicity in the whole animal, which prevents the development and clinical use of the potential drug.

The present inventors have examined tissue from animals exposed to known renal toxins which induce detrimental kidney effects, to identify global changes in gene expression induced by these compounds. These global changes in gene expression, which can be detected by the production of expression profiles (an expression level of one or more genes), provide useful toxicity markers that can be used to monitor toxicity and/or toxicity progression by a test compound. Some of these markers may also be used to monitor or detect various disease or physiological states, disease progression, drug efficacy, and drug metabolism.

### Identification of Toxicity Markers

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To evaluate and identify gene expression changes that are predictive of toxicity, studies using selected compounds with well characterized toxicity have been conducted by the present inventors to catalogue altered gene expression during exposure *in vivo* and *in vitro*. In the present study, cephaloridine, cisplatin, puromycin aminonucleoside (PAN), bromoethylamine hydrobromide (BEA), gentamicin, ifosfamide, cyclophosphamide, carboplatin, AY-25329, indomethacin, acyclovir, citrinin, mercuric chloride, diflunisal, cidofovir, pamidronate, lithium, hydralazine, colchicine, sulfadiazine, and adriamycin were selected as known renal toxins.

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Cephaloridine is an amphoteric, semi-synthetic, broad-spectrum cephalosporin derived from cephalosporin C. Cephalosporins are β-lactam-containing antibiotics which prevent bacterial growth by inhibiting polymerization of the peptidoglycan bacterial cell wall. The linear glycan chains (composed of N-acetylglucosime and N-acetylmuramic acid) are cross-linked to each other by the coupling of short chains of several amino acids, the coupling resulting from the action of a transpeptidase. It is believed that cephalosporins act by blocking the activity of the transpeptidase (Goodman & Gilman's The Pharmalogical Basis of Therapeutics 9<sup>th</sup> ed., J.G. Hardman et al. Eds., McGraw Hill, New York, 1996, pp. 1074-1075, 1089-1095).

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Cephaloridine is administered intramuscularly and is used to treat infections of the respiratory tract, gastrointestinal tract and urinary tract, as well as infections of soft tissue, bones and joints. Noted adverse effects include hypersensitivity reactions (such as anaphylactic shock, urticaria and bronchospasm), gastrointestinal disturbances, candidiasis, and cardiovascular and blood toxicity, in particular, toxicity to the hematopoietic system (cells responsible for the formation of red and white blood cells and platelets).

Although cephaloridine may be nephrotoxic at high dosages, it is not as harmful to the kidneys as are the aminoglycosides and polymixins. High dosages of cephaloridine may cause acute renal tubular necrosis (Cecil Textbook of Medicine, 20<sup>th</sup> ed., part XII, p. 586, J. C. Bennett and F. Plum Eds., W. B. Saunders Co., Philadelphia, 1996) or drug-induced interstitial nephritis, which is accompanied by elevated IgE levels, fever, arthralgia and maculopapular rash. Renal biopsopy demonstrates edema and interstitial inflammatory lesions, mainly with lymphocytes, monocytes, eosinophils and plasma cells. Vasculitis of small vessels may develop, leading to necrotising glomerulonephritis (G. Koren, "The nephrotoxic potential of drugs and chemicals. Pharmacological basis and clinical relevance.," Med Toxicol Adverse Drug Exp 4(1):59-72, 1989).

Cephaloridine has also been shown to reduce mitochondrial respiration and uptake of anionic succinate and carrier-mediated anionic substrate transport (Tune et al. (1990), J Pharmacol Exp Ther 252: 65-69). In a study of oxidative stress and damage to kidney tissue, cephaloridine depleted reduced glutathione (GSH) and produced oxidized glutathione (GSSG) in the renal cortex. This drug also inhibited glutathione reductase

and produced malondialdehyde and conjugated dienes (Tune et al. (1989), Biochem Pharmacol 38: 795-802). Because cephaloridine is actively transported into the proximal renal tubule, but slowly transported across the lumenal membrane into the tubular fluid, high concentrations can accumulate and cause necrosis. Necrosis can be prevented by administering inhibitors of organic anion transport, although such treatment may be counterproductive, as cephaloridine is passed in and out of the kidney by the renal organic anion transport system (Tune et al. (1980), J Pharmacol Exp Ther 215: 186-190).

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Cisplatin (Pt (NH<sub>3</sub>)<sub>2</sub>(Cl)<sub>2</sub>), a broad-spectrum anti-tumor agent, is commonly used to treat tumors of the testicles, ovaries, bladder, skin, head and neck, and lungs (PDR 47<sup>th</sup> ed., pp. 754-757, Medical Economics Co., Inc., Montvale, NJ, 1993; Goodman & Gilman's The Pharmalogical Basis of Therapeutics 9<sup>th</sup> ed., pp. 1269-1271, J.G. Hardman et al. Eds., McGraw Hill, New York, 1996). Cisplatin diffuses into cells and functions mainly by alkylating the N<sup>7</sup> of guanine, a highly reactive site, causing interstrand and intrastrand crosslinks in the DNA that are lethal to cells. The drug is not sensitive to the cell cycle, although its effects are most pronounced in S phase.

Because the drug is cleared from the body mainly by the kidneys, the most frequent adverse effect of cisplatin usage is nephrotoxicity, the severity of which increases with increasing dosage and treatment terms. Other adverse effects include renal tubule damage, myelosuppression (reduced numbers of circulating platelets, leukocytes and erythrocytes), nausea and vomiting, ototoxicity, serum electrolyte disturbances (decreased concentrations of magnesium, calcium, sodium, potassium and phosphate, probably resulting from renal tubule damage), increased serum concentrations of urea and creatinine, and peripheral neuropathies.

In one study on rats (Nonclercq et al. (1989), Exp Mol Pathol 51: 123-140) administration of cisplatin or carboplatin induced renal injury, carboplatin causing less damage than cisplatin. The most prominent injury was to the straight portion of proximal renal tubule.

In another rat study (Goldstein et al. (1981), Toxicol Appl Pharmacol 60: 163-175) animals injected with cisplatin displayed decreased food intake as drug dosage increased. On day 2, the high-dose groups (10-15 mg/kg) exhibited a six or seven-fold elevation in BUN. On day 4, BUN elevation was noted in the 5mg/kg group. An

increase in urine volume was observed beginning on days 3-4, along with decreased urine osmolality in the low-dose groups (2.5 or 5 mg/kg). Another experiment on rats (Agarwal et al. (1995), Kidney Int 48: 1298-1307) showed that cisplatin treatment produced elevations in serum creatinine levels, which began on day 3 and progressed for the duration of the study.

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PAN (C<sub>22</sub>H<sub>29</sub>N<sub>7</sub>O<sub>5</sub>), an antibiotic produced by *Streptomyces alboniger*, inhibits protein synthesis and is commonly used experimentally on rats to mimic human minimal change disease. One study showed that PAN-injected rats demonstrated an increase in levels of serum non-esterified fatty acids, while the serum albumin concentration was negatively affected (Sasaki *et al.* (1999), *Adv Exp Med Biol* 467: 341-346).

In another rat study, an adenosine deaminase inhibitor prevented PAN nephrotoxicity, indicating that PAN toxicity is linked to adenosine metabolism (Nosaka et al. (1997), Free Radic Biol Med 22: 597-605). Another group showed that PAN, when administered to rats, led to proteinuria, a condition associated with abnormal amounts of protein in the urine, and renal damage, e.g. blebbing of glomerular epithelial cells, focal separation of cells from the glomerular basement membrane, and fusion of podocytes (Olson et al. (1981), Lab Invest 44: 271-279). In another study on rats, administration of PAN induced glomerular epithelial cell apoptosis in a dose- and time-dependent manner (Sanwal et al. (2001), Exp Mol Pathol 70: 54-64).

One study with PAN-injected rats (Koukouritaki et al. (1998), J Investig Med 46: 284-289) examined the changes in the expression of the proteins paxillin, focal adhesion kinase, and Rho, all of which regulate cell adhesion to the extracellular matrix. Paxillin levels increased steadily, peaked at day 9 after PAN injection, and then remained elevated even after proteinuria resolved. There was no observed change in expression of either focal adhesion kinase or Rho.

BEA, (C<sub>2</sub>H<sub>6</sub>BrN.HBr), is commonly used experimentally on rats to induce papillary necrosis and renal cortex damage, which is similar to human analgesic nephropathy. BEA-induced papillary necrosis in rats eventually leads to the onset of focal glomerular sclerosis and nephrotic proteinuria (Garber et al. (1999), Am J Kidney Dis 33: 1033-1039). Even at low doses (50 mg/kg), BEA can induce an apex limited renal papillary necrosis (Bach et al. (1983), Toxicol Appl Pharmacol 69: 333-344). In male Wistar rats, BEA administered at 100 mg/kg was shown to cause renal papillary

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necrosis within 24 hours (Bach et al. (1991), Food Chem Toxicol 29: 211-219). Additionally, Bach et al. showed that there was an increase in urinary triglycerides, and lipid deposits were seen by Oil Red O lipid staining in the cells of the collecting ducts and hyperplastic urothelia adjacent to the necrosed region.

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It has also been shown that succinate and citrate concentrations are significantly lower in the urine of BEA-treated rats (Holmes et al. (1995), Arch Toxicol 70: 89-95). Moreover, BEA treatment induced glutaric and adipic aciduria, which is symptomatic of an enzyme deficiency in the acyl CoA dehydrogenases. The same study examined urinary taurine levels in desert mice, and in BEA-treated desert mice there was an increase in the urinary taurine level which is indicative of liver toxicity.

Another study on BEA-treated rats showed that there was an increase in the concentrations of creatine in the renal papilla and glutaric acid in the liver, renal cortex, and renal medulla as soon as 6 hours post-treatment (Garrod et al. (2001), Magn Reson Med 45: 781-790).

Discovered and purified in the early 1960's, gentamicin is a broad-spectrum aminoglycoside antibiotic that is cidal to aerobic gram-negative bacteria and commonly used to treat infections, e.g., those of the urinary tract, lungs and meninges. As is typical for an aminoglycoside, the compound is made of two amino sugar rings linked to a central aminocyclitol ring by glycosidic bonds. Aminoglycosides are absorbed poorly with oral administration, but are excreted rapidly by the kidneys. As a result, kidney toxicity is the main adverse effect, although ototoxicity and neuromuscular blockade can also occur. Gentamicin acts by interfering with bacterial protein synthesis. This compound is more potent than most other antibacterial inhibitors of protein synthesis, which are merely bacteriostatic, and its effects on the body are, likewise, more severe (Goodman & Gilman's The Pharmalogical Basis of Therapeutics 9th ed., pp. 1103-1115, J.G. Hardman et al. Eds., McGraw Hill, New York, 1996).

Aminoglycosides work rapidly, and the rate of bacterial killing is concentration-dependent. Residual bactericidal activity remains after serum concentration has fallen below the minimum inhibitory concentration (MIC), with a duration that is also dosage/concentration-dependent. The residual activity allows for once-a-day administration in some patients. These drugs diffuse into bacterial cells through porin channels in the outer membrane and are then transported across the cytoplasmic

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membrane via a membrane potential that is negative on the inside (Goodman & Gilman, supra).

Kidney damage, which can develop into renal failure, is due to the attack of gentamicin on the proximal convoluted tubule, particularly in the S1 and S2 segments. The necrosis, however, is often patchy and focal (Shanley et al. (1990), Ren Fail 12: 83-87). A rat study by Shanley et al. showed that superficial nephrons are more susceptible to necrosis than juxtamedullary nephrons, although the initial segment of the superficial nephrons is remarkably resistant to necrosis.

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Reported enzymatic changes upon gentamicin treatment are increased activities of N-acetyl-beta-D-glucosaminidase and alkaline phosphatase and decreased activities of sphingomyelinase, cathepsin B, Na<sup>+</sup>/K<sup>+</sup>-ATPase, lactate dehydrogenase and NADPH cytochrome C reductase, along with decreased protein synthesis and alpha-methylglucose transport (Monteil et al. (1993), Ren Fail 15: 475-483). An increase in gamma-glutamyl transpeptidase activity in urine has also been reported (Kocaoglu et al. (1994), Arch Immunol Ther Exp (Warsz) 42: 125-127), and the quantification of this enzyme in urine is a useful marker for monitoring gentamicin toxicity.

One source of renal pathology resulting from gentamicin treatment is the generation of reactive oxygen metabolites. Gentamicin has been shown, both *in vitro* and *in vivo*, to be capable of enhancing the production of reactive oxygen species. Iron, a necessary co-factor that catalyzes free-radical formation, is supplied by cytochrome P450 (Baliga et al. (1999), Drug Metab Rev 31: 971-997).

A gene delivery experiment in rats, in which the human kallikrein gene was cloned into an adenovirus vector and the construct then co-administered with a gentamicin preparation, showed that kallikrein can protect against gentamicin-induced nephrotoxicity. Significantly increased renal blood flow, glomerular filtration rates and urine flow were observed, along with decreased renal tubular damage, cellular necrosis and lumenal protein casts. Kallikrein gene delivery also caused a decrease in blood urea nitrogen levels and increases in urinary kinin and nitrite/nitrate levels. This study provides evidence that the tissue kallikrein-kinin system may be a key pathway that is perturbed during the induction of nephrotoxicity by gentamicin (Murakami et al. (1998), Kidney Int 53: 1305-1313).

Ifosfamide, an alkylating agent, is commonly used in chemotherapy to treat testicular, cervical, and lung cancer. Ifosfamide is slowly activated in the liver by hydroxylation, forming the triazene derivative 5-(3,3-dimethyl-1-triazeno)-imidazole-4-carboxamide (DTIC) (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p.1235, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996). Cytochrome P450 activates DTIC via an N-demethylation reaction yielding an alkylating moiety, diazomethane. The active metabolites are then able to cross-link DNA causing growth arrest and cell death. Though ifosfamide is therapeutically useful, it is also associated with nephrotoxicity, urotoxicity, and central neurotoxicity.

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Mesna, another therapeutic, is often administered concomitantly to prevent kidney and bladder problems from arising (Brock and Pohl (1986), *IARC Sci Publ* 78: 269-279). However, there are documented cases in which tubular toxicity occurred and elevated urinary levels of alanine aminopeptidase and N-acetyl-beta-D-glucosaminidase were found in patients even though mesna was administered alongside ifosfamide (Goren et al. (1987), *Cancer Treat Rep* 71: 127-130).

One study examined 42 patients that had been administered ifosfamide to treat advanced soft-tissue sarcoma (Stuart-Harris et al. (1983), Cancer Chemother Pharmacol 11: 69-72). The ifosfamide dosage varied from 5.0 g/m² to 8.0 g/m², and all of the patients were given mesna to counteract the negative effects of ifosfamide. Even so, nausea and vomiting were common to all of the patients. Out of the 42 patients, seven developed nephrotoxicity, and two of the cases progressed to fatal renal failure.

In another clinical study, renal tubular function was monitored in 18 neuroblastoma patients (Caron et al. (1992), Med Pediatr Oncol 20: 42-47). Tubular toxicity occurred in at least 12 of the patients, and seven of those patients eventually developed Debre-de Toni-Fanconi syndrome, although in 3 cases the syndrome was reversible.

Fanconi syndrome is a disorder marked by dysfunction of the proximal tubules of the kidney. It is associated with aminoaciduria, renal glycosuria, and hyperphosphaturia. Ifosfamide is often used experimentally on rats to induce Fanconi syndrome. In one study, rats that were administered 80 mg/kg of ifosfamide had significantly lower body weight and hematocrit than control rats (Springate and Van Liew (1995), *J Appl Toxicol* 15: 399-402). Additionally, the rats had low-grade glucosuria, proteinuria, and

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phosphaturia. In a mouse study, ifosfamide induced elevated serum creatinine and urea levels and decreased the clearance rate of creatinine (Badary (1999), *J Ethnopharmacol* 67: 135-142).

Cyclophosphamide, a nitrogen mustard and alkylating agent, is highly toxic to dividing cells and is commonly used in chemotherapy to treat malignant lymphomas, such as non-Hodgkin's lymphomas and Burkitt's lymphoma, multiple myeloma, leukemias, neuroblastomas, ovarian adenocarcinomas and retinoblastomas, as well as breast and lung cancer (Goodman & Gilman's The Pharmacological Basis of

Therapeutics 9th ed., pp.1234, 1237-1239, J.G. Hardman et al., eds., McGraw Hill, New York, 1996; Physicians Desk Reference, 47th ed., pp. 744-745, Medical Economics Co., Inc., Montvale, NJ, 1993). Additionally, cyclophosphamide is used as an immunosuppressive agent in bone marrow transplantation and following organ transplantation. Although cyclophosphamide is therapeutically useful against certain types of cancer, it is also associated with cardiotoxicity, nephrotoxicity (including renal tubular necrosis), hemorrhagic cystitis, myelosuppression, hepatotoxicity, impairment of male and female reproductive systems, interstitial pneumonitis and central nervous system toxicity.

Once in the liver, cyclophosphamide is hydroxylated by the cytochrome P450 mixed function oxidase system, producing the active metabolites phosphoramide mustard and acrolein, which cross-link DNA and cause growth arrest and cell death. These metabolites, however, are highly toxic and cause adverse effects in the other organs into which they are transported, such as the kidneys. Acrolein is removed from the kidneys by secretion into the urine, resulting in cystitis (inflammation of the bladder), often hemorrhagic cystitis.

In the kidney, cyclophosphamide induces necrosis of the renal distal tubule. Cyclophosphamide, which is structurally similar to the anti-cancer drug ifosfamide, does not induce damage to the renal proximal tubule nor does it induce Debre-de Toni-Fanconi syndrome (Rossi et al. (1997), Nephrol Dial Transplant 12: 1091-1092).

One clinical trial of patients being treated with cyclophosphamide showed that renal damage from the drug leads to a reduced biotransformation rate and low renal clearance of the drug, resulting in a build-up of toxic alkylating metabolic products (Wagner et al. (1980), Arzneimittelforschung 30: 1588-1592).

In a study of patients suffering from malignant lymphomas and mammary carcinomas, a direct relationship was found between the dose of cyclophosphamide used in treatment and the concentration of alkylating metabolites in the patients' urine. The upper limit of the dose was determined by the nature and degree of the toxic side effects, rather than by the rate at which the drug could be metabolized (Saul et al. (1979), J Cancer Res Clin Oncol 94: 277-286). It is the acrolein itself that is toxic, not the alkylating activity of cyclophosphamide (Brock et al. (1979), Arzneimittelforschung 29: 659-661). A study on rats also showed that acrolein from the kidneys can produce hemorrhagic cystitis and that the acrolein concentration is directly related to the frequency and severity of the cystitis (Chijiwa et al. (1983), Cancer Res 43: 5205-5209).

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Carboplatin, a platinum coordination complex, is commonly used in chemotherapy as an anti-tumor agent. As a chemotherapeutic agent, carboplatin acts similarly to cisplatin. Carboplatin enters the cell by diffusion where it is activated by hydrolysis (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p. 1270-1271, J.G. Hardman et al. Eds., McGraw Hill, New York 1996). Once activated, the platinum complexes are able to react with DNA causing cross-linking to occur. One of the differences between carboplatin and cisplatin is that carboplatin is better tolerated clinically. Some of the side-effects associated with cisplatin, such as nausea, neurotoxicity, and nephrotoxicity, are seen at a lesser degree in patients administered carboplatin. Some other side-effects are hypomagnesaemia and hypokalaemia (Kintzel (2001), Drug Saf 24: 19-38).

In one study on male Wistar rats, carboplatin was administered at a dosage of 65mg/kg (Wolfgang et al. (1994), Fundam Appl Toxicol 22: 73-79). After treatment with carboplatin, CGT excretion was increased approximately two-fold.

Another study compared cisplatin and carboplatin when given in combination with vindesine and mitomycin C (Jelic et al. (2001) Lung Cancer 34: 1-13). The study showed that carboplatin administered with vindesine and mitomycin C was advantageous in terms of overall survival, although the regimen was more hematologically toxic than when cisplatin was given.

AY-25329, is a phenothiazine that has been shown to be mildly hepatotoxic and to induce nephrosis. Its structure is shown below.

Phenothiazines are a class of psychoactive drugs. They have been used to treat schizophrenia, paranoia, mania, hyperactivity in children, some forms of senility, and anxiety (http://www.encyclopedia.com/articlesnew/ 36591.html). Some side effects associated with prolonged use of the drugs are reduced blood pressure, Parkinsonism, reduction of motor activity, and visual impairment.

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Chlorpromazine (Thorazine or Largactil) is an aliphatic phenothiazine and is widely used for treating schizophrenia and manic depression. Prolactin secretion is increased while taking chlorpromazine, and galactorrhea and gynecomastia have both been associated with the drug (http://www.mentalhealth.com/drug/p30-c01.html). Trifluoperazine is another prescribed phenothiazine. It is used to treat anxiety, to prevent nausea and vomiting, and to manage psychotic disorders (http://www.mentalhealth.com/drug/p30-s04.html). Negative side-effects that have been associated with the drug are liver damage, bone marrow depression, and Parkinsonism.

Acyclovir (9-[(2-hydroxyethyl) methyl] guanine, Zovirax®), an anti-viral guanosine analogue, is used to treat herpes simplex virus (HSV), varicella zoster virus (VZV) and Epstein-Barr virus (EBV) infections. It is transported into cells by the nucleoside transporter that imports guanine, and acyclovir is phosphorylated by virally encoded thymidine kinase (TK). Other kinases convert acyclovir to its activated di- and triphosphate forms, which prevent the polymerization of viral DNA. Acyclovir triphosphate competes with dGTP for the viral polymerase, and acyclovir is preferentially incorporated, but as a monophosphate. As a result, chain elongation ceases (Fields Virology 3<sup>d</sup> ed., Fields et al., eds., pp. 436-440, Lippincott-Raven Publishers, Philadelphia, 1996; Cecil Textbook of Medicine, 20<sup>th</sup> ed., part XII, p. 1742, J. C. Bennett and F. Plum Eds., W. B. Saunders Co., Philadelphia, 1996).

The pharmacokinetics of acyclovir show that it has a useful half-life of about three hours and that most of it is excreted in the urine largely unchanged (Brigden et al. (1985), Scand J Infect Dis Suppl 47: 33-39). Not surprisingly, the most frequent adverse

effect of acyclovir treatment is damage to various parts of the kidney, particularly the renal tubules. Crystalluria, or the precipitation of crystals (in this case, crystals of acyclovir), in the lumina of the renal tubules can occur (Fogazzi (1996), Nephrol Dial Transplant 11: 379-387). If the drug crystallizes in the renal collecting tubules, obstructive nephropathy and tubular necrosis can result (Richardson (2000), Vet Hum Toxicol 42: 370-371). Tissues from biopsies of affected patients showed dilation of the proximal and distal renal tubules, with loss of the brush border, flattening of the lining cells and focal nuclear loss (Becker et al. (1993), Am J Kidney Dis 22: 611-615).

Citrinin, a mycotoxin produced by the fungus *Penicillium citrinum*, is a natural contaminant of foods and feeds (Bondy and Armstrong (1998) *Cell Biol. Toxicol.* 14: 323-332). It is known that mycotoxins can have negative effects on the immune system, however citrinin-treated animals have been shown to stimulate responses against antigens (Sharma (1993) *J. Dairy Sci.* 76: 892-897). Citrinin is a known nephrotoxin, and in birds such as chickens, ducklings, and turkeys, it causes diarrhea, increased food consumption and reduced weight gain due to kidney degeneration (Mehdi *et al.* (1981) *Food Cosmet. Toxicol.* 19: 723-733; Mehdi *et al.* (1984) *Vet. Pathol.* 21: 216-223). In the turkey and duckling study, both species exhibited nephrosis with the occurrence of hepatic and lymphoid lesions (Mehdi *et al.*, 1984).

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In one study, citrinin was administered to rabbits as a single oral dose of either 120 or 67 mg/kg (Hanika et al. (1986) Vet. Pathol. 23: 245-253). Rabbits treated with citrinin exhibited renal alterations such as condensed and distorted mitochondria, distended intercellular spaces of the medullary and straight cortical distal tubules, and disorganization of interdigitating processes. In another rabbit study, citrininadministered rabbits displayed azotaemia and metabolic acidosis (Hanika et al. (1984) Food Chem. Toxicol. 22: 999-1008). Renal failure was indicated by decreased creatinine clearance and increased blood urea nitrogen and serum-creatinine levels.

In the past, mercury was an important component of pharmaceuticals, particularly of antiseptics, antibacterials, skin ointments, diuretics and laxatives. Although, mercury has been largely replaced by more effective, more specific and safer compounds, making drug-induced mercury poisoning rare, it is still widely used in industry. Poisoning from occupational exposure and environmental pollution, such as mercury release into public water supplies, remains a concern as wildlife, domestic animals and humans are affected.

Because of their lipid solubility and ability to cross the blood-brain barrier, the most dangerous form of mercury is the organomercurials, the most common of which is methylmercury, a fungicide used for disinfecting crop seeds. In a number of countries, incidents involving large-scale illness and death from mercury poisoning have been reported when mercury-contaminated seeds were planted and the crops harvested and consumed. A second source of organic mercury poisoning results from industrial chemicals containing inorganic mercury, such as mercury catalysts, which form methylmercury as a reaction product. If this waste product is released into reservoirs, lakes, rivers or bays, the surrounding population can become sick or die, particularly those who eat local fish.

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The inorganic salt mercuric chloride, HgCl<sub>2</sub>, as well as other mercuric salts, are more irritating and more toxic than the mercurous forms. Mercuric chloride is used today in industry, for the manufacture of bleach, electronics, plastics, fungicides and dental amalgams. The main source of human exposure is industrial dumping into rivers (Goodman & Gilman's: The Pharmacological Basis of Therapeutics (9th ed.), pp. 1654-1659, McGraw-Hill, New York, 1996).

When inorganic mercury salts are ingested, about 10% of the mercuric ions are absorbed by the gastrointenstinal tract, and a considerable portion of the Hg<sup>2+</sup> can remain bound to the mucosal surfaces. The highest concentration of Hg<sup>2+</sup> is found in the kidneys, as it is retained there longer than in other tissues. Consequently, the kidneys are the organ most adversely affected by inorganic mercury poisoning. The proximal tubules are the major site of damage, where tubular necrosis results. The mercury affects primarily the S2 and S3 portions of the proximal tubules, but, at high levels of mercury exposure, the S1 and distal portions of the tubules are also damaged. These regions of the nephrons are affected because they contain enzymes (such as gammaglutamyltranspeptidase) and transport proteins (such as the basolateral organic anion transport system) involved in mercury uptake (Diamond *et al.* (1998), *Toxicol Pathol* 26: 92-103).

Urinary markers of mercury toxicity which can be detected in NMR spectra

include elevated levels of lactate, acetate and taurine and decreased levels of hippurate
(Holmes et al. (2000), Chem Res Toxicol 13: 471-478). Known changes in gene
expression in kidneys exposed to Hg<sup>2+</sup> include up-regulation of the heat-shock protein

hsp72 and of the glucose-regulated protein grp94. The degree of tissue necrosis and level of expression of these proteins is proportional to both the dose of mercury (Hg<sup>2+</sup>) and the length of the exposure time to mercury (Hg<sup>2+</sup>), with hsp72 accumulating in the renal cortex and grp94 accumulating in the renal medulla (Goering et al. (2000), Toxicol Sci 53: 447-457).

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Diflunisal, a non-steroidal anti-inflammatory drug (NSAID), is a difluorophenyl derivative of salicylic acid (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p. 631, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996). It is most frequently used in the treatment of osteoarthritis and musculoskeletal strains.

NSAIDs have analgesic, antipyretic and anti-inflammatory actions, however hepatotoxicity is known to be an adverse side effect of NSAID treatment (Masubuchi et al. (1998) J. Pharmacol. Exp. Ther. 287: 208-213). Diflunisal has been shown to be less toxic than other NSAIDs, nevertheless over long periods of dosage it can lead to deleterious effects on platelet or kidney function (Bergamo et al. (1989) Am. J. Nephrol.

9: 460-463). Other side effects that have been associated with diflunisal treatment are diarrhea, dizziness, drowsiness, gas or heartburn, headache, nausea, vomiting, and insomnia (http://arthritisinsight.com/medical/ meds/dolobid.html).

Masubuchi *et al.* compared the hepatotoxicity of 18 acidic NSAIDs. In the study, diflunisal (administered at a concentration of 500  $\mu$ M) was shown to increase LDH leakage in rat hepatocytes, a marker for cell injury, when compared to the control sample. In addition, treatment with diflunisal led to decreased intracellular ATP concentrations.

One study compared the effects of diflunisal and ibuprofen when given to patients over a two week period (Muncie and Nasrallah (1989) Clin. Ther. 11: 539-544). In both the ibuprofen and the diflunisal group, two patients complained of abdominal cramping. The study indicated that even during short-term usage some gastrointestinal effects may occur. The toxic dose used in this study was chosen as one that did not induce significant gastric ulceration in rats. The group of rats given the high dosage of diflunisal had increased concentrations of creatinine which is consistent with renal injury, although dehydration may also cause increases in creatinine concentration.

Cidofovir (Vistide®) is an antiviral cytosine analog used in the treatment of viral infections such as herpesvirus, adenovirus, papillomavirus, poxvirus and hepadnavirus

(Goodman & Gilman's The Pharmacological Basis of Therapeutics 9<sup>th</sup> ed., p. 1216, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996). It is also useful for the treatment of cytomegalovirus (CMV) infection, which is a type of herpesvirus.

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Some mild side effects seen in patients receiving cidofovir are nausea, vomiting, and fever. The most serious reported side effect of the drug is kidney toxicity (http://tthivclinic.com/cido.html). In response to the threat of nephrotoxicity, it is necessary for patients receiving cidofovir to have their kidneys checked before treatment, and the patients must be monitored during treatment for early symptoms of kidney problems. In addition, cidofovir is given with fluids to help reduce the risk of kidney toxicity (http://www.aidsinfonyc.org/ network/simple/cido.html). Probenecid, a drug that helps protect the kidneys, is normally administered concomitantly (Lalezari and Kuppermann (1997) J. Acquir. Immune Defic. Syndr. Hum. Retrovirol. 14: S27-31).

One study compared the safety and efficacy of cidofovir in the treatment of CMV (Lalezari et al. (1998) J. Acquir. Immune Defic. Syndr. Hum. Retrovirol. 17: 339-344). Approximately 40% of the patients exhibited dose-dependent asymptomatic proteinuria and 25% of the patients had elevated serum creatinine levels.

Pamidronate (Aredia®) is a bisphosphonate drug that is clinically used to inhibit bone resorption and make bones more stable. It is used to treat hypercalcemia (too much calcium in the blood) that occurs with some types of cancer. Typically administered by intravenous injection, pamidronate is frequently used in patients with breast cancer or multiple myeloma whose disease has spread to the bones. Some side effects related to pamidronate treatment are abdominal cramps, chills, confusion, fever, muscle spasms, nausea, muscle stiffness, and swelling at the injection site (http://www.nursing.uiowa.edu/sites/PedsPain/Adjuvants/PAMIDRnt.html). Patients with kidney problems may be prohibited from using pamidronate as it is excreted through the kidneys.

In one study, rats and mice were given varying doses of labeled pamidronate (Cal and Daley-Yates (1990) *Toxicology* 65: 179-197). Pamidronate treatment led to significant weight loss and a decrease in creatinine clearance. Morphological studies showed a loss of brush border membranes and the presence of focal proximal tubular necrosis.

Another study compared the tolerability of different treatments for hypercalcemia of malignancy by reviewing articles published between 1979 and 1998 (Zojer et al.

(1999) Drug Saf. 21: 389-406). The authors found that elevated serum creatinine level, nausea, and fever were reported following treatment with bisphosphonates such as pamidronate.

Markowitz et al. (2001, J. Am. Soc. Nephrol. 12: 1164-1172) tried to determine whether there was a correlation between pamidronate treatment and collapsing focal segmental glomerulosclerosis (FSGS). The authors examined the histories of seven patients who had developed collapsing FSGS, and they found that the only drug treatment in common was the administration of pamidronate. When given at the recommended dose of 90 mg per month, renal toxicity was rare. However, when pamidronate was given at higher doses nephrotoxicity occurred.

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Lithium, an alkali metal, is the main pharmacological treatment for bipolar disorders. It is typically given as a salt, such as lithium carbonate or lithium citrate. Some common side effects of lithium treatment are an increase in urination, increase in drinking, dry mouth, weight gain, fine tremor, and fatigue. Some more serious side effects related to lithium treatment are blurred vision, mental confusion, seizures, vomiting, diarrhea, muscle weakness, drowsiness, and coarse tremor (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p. 448, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996).

Since lithium is often used on a maintenance basis for a lifelong period, numerous studies have been performed to try and elucidate the effects of lithium on the kidney. One group administered lithium in daily doses within the human therapeutic range to male Wistar rats (Kling et al. (1984) Lab Invest 50: 526-535). Rats that were given lithium developed marked polyuria within three weeks of the initial dosing. The rats displayed elevated free water clearance and vasopressin-resistant diabetes insipidus. The cortical collecting tubules displayed morphological changes, e.g. dilation of the tubules, bulging cells lining the tubules, enlarged nuclei, following lithium treatment.

Another study examined a human population that had been given lithium for the treatment of bipolar disorder (Markowitz et al. (2000) J. Am. Soc. Nephrol. 11: 1439-1448). The patients had a mean age of 42.5 years and had been undergoing lithium treatment from 2 to 25 years (mean of 13.6 years). Approximately one fourth of the patients had nephrotic proteinuria, almost 90% of them had nephrogenic diabetes insipidus (NDI), and renal biopsies revealed a chronic tubulointerstitial nephropathy in

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all of the patients. Following cessation of lithium treatment, seven of the patients proceeded to end-stage renal disease.

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Even though nephrotoxicity is a known side effect of lithium treatment, some studies have indicated that in actuality it is not all that common (Johnson (1998) Neuropsychopharmacology 19: 200-205). One study showed that the NDI-like effect in lithium treatment was easily overcome by increasing the levels of arginine vasopressin (AVP) (Carney et al. (1996) Kidney Int 50: 377-383). Other studies have suggested that patients with psychiatric disorders display certain defects in renal function without undergoing lithium treatment (Gitlin (1999) Drug Saf 20: 231-243).

Hydralazine, an antihypertensive drug, causes relaxation of arteriolar smooth muscle. Such vasodilation is linked to vigorous stimulation of the sympathetic nervous system, which in turn leads to increased heart rate and contractility, increased plasma renin activity, and fluid retention (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p. 794, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996). The increased renin activity leads to an increase in angiotensin II, which in turn causes stimulation of aldosterone and sodium reabsorption.

Hydralazine is used for the treatment of high blood pressure (hypertension) and for the treatment of pregnant women suffering from high blood pressure (pre-eclampsia or eclampsia). Some common side effects associated with hydralazine use are diarrhea, rapid heartbeat, headache, decreased appetite, and nausea. Hydralazine is often used concomitantly with drugs that inhibit sympathetic activity to combat the mild pulmonary hypertension that can be associated with hydralazine usage.

In one hydralazine study, rats were fed hydralazine and mineral metabolism was monitored (Peters et al. (1988) Toxicol Lett 41: 193-202). Manganese and zinc concentrations were not effected by hydralazine treatment, however tissue iron concentrations were decreased and kidney copper concentrations were increased compared to control groups.

Another study compared the effects of hydrazine, phenelzine, and hydralazine treatment on rats (Runge-Morris et al. (1996) Drug Metab Dispos 24: 734-737). Hydralazine caused an increase in renal GST-alpha subunit expression, although unlike hydrazine and phenelzine it did not alter renal cytochrome P4502E1 expression.

Colchicine, an alkoloid of *Colchicum autumale*, is an antiinflammatory agent used in the treatment of gouty arthritis (<u>Goodman & Gilman's The Pharmacological</u>

<u>Basis of Therapeutics 9<sup>th</sup> ed.</u>, p. 647, J.G. Hardman *et al.*, Eds., McGraw Hill, New York, 1996).

An antimitotic agent, colchicine binds to tubulin which leads to depolymerization and disappearance of the fibrillar microtubules in granulocytes and other motile cells. In doing so, the migration of granulocytes into the inflamed area is inhibited. Through a series of events, the inflammatory response is blocked.

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Some common, mild side effects associated with colchicine treatment are loss of appetite and hair loss. More severe side effects that warrant cessation of treatment are nausea, vomiting, diarrhea, and abdominal pain. Colchicine overdose can induce multiorgan failure with a high incidence of mortality. In this setting, renal failure is multifactorial and related to prolonged hypotension, hypoxemia, sepsis, and rhabdomyolysis. In rats, less dramatic doses have been shown to inhibit the secretion of many endogenous proteins such as insulin and parathyroid hormone.

One study investigated the effects of colchicine on microtubule polymerization status and post-translational modifications of tubulin in rat seminiferous tubules (Correa and Miller (2001) *Biol Reprod* 64: 1644-1652). Colchicine caused extensive microtubule depolymerization, and total tubulin levels decreased twofold after colchicine treatment. The authors also found that colchicine treatment led to a decrease in tyrosination of the microtubule pool of tubulin which was associated with depolymerization of microtubules.

Sulfadiazine, a sulfonamide, is an antimicrobial agent. It is commonly used concomitantly with pyrimethamine to treat toxoplasmosis, an infection of the brain, in patient suffering from AIDS. These drugs are able to cross the blood-brain barrier and are used at relatively high doses. In addition, sulfadiazine has been shown to be effective at preventing certain types of meningococcal diseases and in treating urinary tract infections.

Sulfonamides in general are structural analogs of para-aminobenzoic acid

(PABA). Because they are competitive antagonists of PABA, sulfonamides are effective against bacteria that are required to utilize PABA for the synthesis of folic acid

(Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p. 1058-1060, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996).

The main side effects associated with sulfadiazine treatment are fever and skin rashes. Decreases in white blood cells, red blood cells, and platelets, nausea, vomiting, and diarrhea are some other side effects that may result from sulfadiazine treatment. The most troublesome problem with this drug for HIV/AIDS patients is kidney toxicity. These patients tend to use these drugs for extended periods of time, which puts a constant strain on the kidneys. In addition, kidney stones tend to form in the bladder and ureter thereby blocking the flow of urine. Kidney damage may result, and if left untreated kidney failure may occur. Therefore, patients being treated with sulfadiazine are instructed to increase their fluid intake in order to prevent crystal formation in the kidneys.

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One case study examined four HTV-positive patients who had been given sulfadiazine to treat toxoplasmosis (Crespo et al. (2000) Clin Nephrol 54: 68-72). All four of the patients, one of whom was a previously healthy person, developed oliguria, abdominal pain, renal failure, and displayed multiple radiolucent renal calculi in echography. Following extensive hydration and alcalinization, the renal function of the patients returned to normal.

Adriamycin, known generically as doxorubicin, is an anthracycline antibiotic produced by the fungus *Streptomyces peucetius*. It is an anti-tumor drug used in the treatment of breast, ovarian, bladder, and lung cancers as well as non-Hodgkin's lymphoma, Hodgkin's disease and sarcoma (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9<sup>th</sup> ed., p. 1264-1265, J.G. Hardman *et al.*, Eds., McGraw Hill, New York, 1996).

Adriamycin has tetracycline ring structures with the sugar daunosamine attached by glycosidic linkage. It is able to intercalate with DNA, it affects DNA and RNA synthesis, and it can interact with cell membranes and alter their functions. Typically the drug is cell-cycle specific for the S phase of cell division. By binding to the cancer cells' DNA and blocking topoisomerase II, cancer cells are unable to divide and grow.

Some common side effects associated with adriamycin treatment are fatigue, a drop in white blood cell, red blood cell, or platelet count, hair loss, skin discoloration, and watery eyes (www.cancerhelp.org.uk/help/default.asp?page=4025). More serious

side effects include myocardial toxicity, ulceration and necrosis of the colon, and development of a second cancer.

Because of its utility in fighting cancer, numerous studies have been performed in attempts to further understand the mechanisms and effects of adriamycin. In one study, investigators injected mice with a single dose of adriamycin (Chen et al. (1998) Nephron 78: 440-452). The mice exhibited signs of combined glomerular albuminuria and immunoglublinuria, progressively elevated levels of nitrite/nitrate in the urine, abnormal renal function, and other symptoms indicative of focal segmental glomerulosclerosis.

In another study, rats were given adriamycin and the effects on angiotensin converting enzyme (ACE) were monitored (Venkatesan et al. (1993) Toxicology 85: 137-148). The rats developed glomerular and tubular injury, and serum ACE levels were significantly elevated 20, 25, and 30 days post-treatment. A different study followed rabbits for up to one year that were treated with either adriamycin, nephrectomy, or combinations thereof (Gadeholt-Gothlin et al. (1995) Urol Res 23: 169-173). The rabbits that were treated with adriamycin exhibited signs of nephrotoxicity at relatively low doses.

#### Toxicity Prediction and Modeling

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The genes and gene expression information, gene expression profiles, as well as the portfolios and subsets of the genes provided in Tables 1-5, may be used to predict at least one toxic effect, including the nephrotoxicity of a test or unknown compound. As 20 used, herein, at least one toxic effect includes, but is not limited to, a detrimental change in the physiological status of a cell or organism. The response may be, but is not required to be, associated with a particular pathology, such as tissue necrosis. Accordingly, the toxic effect includes effects at the molecular and cellular level. Nephrotoxicity is an effect as used herein and includes but is not limited to the 25 pathologies of nephritis, kidney necrosis, glomerular and tubular injury, and focal segmental glomerulosclerosis. As used herein, a gene expression profile comprises any quantitative representation of the expression of at least one mRNA species in a cell sample or population and includes profiles made by various methods such as differential 30 display, PCR, hybridization analysis, etc.

In general, assays to predict the toxicity or nephrotoxicity of a test agent (or compound or multi-component composition) comprise the steps of exposing a cell

population to the test compound, assaying or measuring the level of relative or absolute gene expression of one or more of the genes in Tables 1-5 and comparing the identified expression level(s) to the expression levels disclosed in the Tables and database(s) disclosed herein. Assays may include the measurement of the expression levels of about 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 50, 75, 100 or more genes from Tables 1-5.

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In the methods of the invention, the gene expression level for a gene or genes induced by the test agent, compound or compositions may be comparable to the levels found in the Tables or databases disclosed herein if the expression level varies within a factor of about 2, about 1.5 or about 1.0 fold. In some cases, the expression levels are comparable if the agent induces a change in the expression of a gene in the same direction (e.g., up or down) as a reference toxin.

The cell population that is exposed to the test agent, compound or composition may be exposed *in vitro* or *in vivo*. For instance, cultured or freshly isolated renal cells, in particular rat renal cells, may be exposed to the agent under standard laboratory and cell culture conditions. In another assay format, *in vivo* exposure may be accomplished by administration of the agent to a living animal, for instance a laboratory rat.

Procedures for designing and conducting toxicity tests in *in vitro* and *in vivo* systems are well known, and are described in many texts on the subject, such as Loomis *et al.*, Loomis's Esstentials of Toxicology, 4th Ed., Academic Press, New York, 1996; Echobichon, The Basics of Toxicity Testing, CRC Press, Boca Raton, 1992; Frazier, editor, *In Vitro* Toxicity Testing, Marcel Dekker, New York, 1992; and the like.

In *in vitro* toxicity testing, two groups of test organisms are usually employed:

One group serves as a control and the other group receives the test compound in a single dose (for acute toxicity tests) or a regimen of doses (for prolonged or chronic toxicity tests). Because, in some cases, the extraction of tissue as called for in the methods of the invention requires sacrificing the test animal, both the control group and the group receiving compound must be large enough to permit removal of animals for sampling tissues, if it is desired to observe the dynamics of gene expression through the duration of an experiment.

In setting up a toxicity study, extensive guidance is provided in the literature for selecting the appropriate test organism for the compound being tested, route of administration. dose ranges, and the like. Water or physiological saline (0.9% NaCl in

water) is the solute of choice for the test compound since these solvents permit administration by a variety of routes. When this is not possible because of solubility limitations, vegetable oils such as com oil or organic solvents such as propylene glycol may be used.

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Regardless of the route of administration, the volume required to administer a given dose is limited by the size of the animal that is used. It is desirable to keep the volume of each dose uniform within and between groups of animals. When rats or mice are used, the volume administered by the oral route generally should not exceed about 0.005 ml per gram of animal. Even when aqueous or physiological saline solutions are used for parenteral injection the volumes that are tolerated are limited, although such solutions are ordinarily thought of as being innocuous. The intravenous LD<sub>50</sub> of distilled water in the mouse is approximately 0.044 ml per gram and that of isotonic saline is 0.068 ml per gram of mouse. In some instances, the route of administration to the test animal should be the same as, or as similar as possible to, the route of administration of the compound to man for therapeutic purposes.

When a compound is to be administered by inhalation, special techniques for generating test atmospheres are necessary. The methods usually involve aerosolization or nebulization of fluids containing the compound. If the agent to be tested is a fluid that has an appreciable vapor pressure, it may be administered by passing air through the solution under controlled temperature conditions. Under these conditions, dose is estimated from the volume of air inhaled per unit time, the temperature of the solution, and the vapor pressure of the agent involved. Gases are metered from reservoirs. When particles of a solution are to be administered, unless the particle size is less than about 2 µm the particles will not reach the terminal alveolar sacs in the lungs. A variety of apparatuses and chambers are available to perform studies for detecting effects of irritant or other toxic endpoints when they are administered by inhalation. The preferred method of administering an agent to animals is via the oral route, either by intubation or by incorporating the agent in the feed.

When the agent is exposed to cells *in vitro* or in cell culture, the cell population to be exposed to the agent may be divided into two or more subpopulations, for instance, by dividing the population into two or more identical aliquots. In some preferred embodiments of the methods of the invention, the cells to be exposed to the agent are

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derived from kidney tissue. For instance, cultured or freshly isolated rat renal cells may be used.

The methods of the invention may be used generally to predict at least one toxic response, and, as described in the Examples, may be used to predict the likelihood that a compound or test agent will induce various specific kidney pathologies, such as nephritis, kidney necrosis, glomerular and tubular injury, focal segmental glomerulosclerosis, or other pathologies associated with at least one of the toxins herein described. The methods of the invention may also be used to determine the similarity of a toxic response to one or more individual compounds. In addition, the methods of the invention may be used to predict or elucidate the potential cellular pathways influenced, induced or modulated by the compound or test agent due to the similarity of the expression profile compared to the profile induced by a known toxin (see Tables 5-5CC).

Diagnostic Uses for the Toxicity Markers

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As described above, the genes and gene expression information or portfolios of the genes with their expression information as provided in Tables 1-5 may be used as diagnostic markers for the prediction or identification of the physiological state of tissue or cell sample that has been exposed to a compound or to identify or predict the toxic effects of a compound or agent. For instance, a tissue sample such as a sample of peripheral blood cells or some other easily obtainable tissue sample may be assayed by any of the methods described above, and the expression levels from a gene or genes from Tables 1-5 may be compared to the expression levels found in tissues or cells exposed to the toxins described herein. These methods may result in the diagnosis of a physiological state in the cell or may be used to identify the potential toxicity of a compound, for instance a new or unknown compound or agent. The comparison of expression data, as well as available sequence or other information may be done by researcher or diagnostician or may be done with the aid of a computer and databases as described below.

In another format, the levels of a gene(s) of Tables 1-5, its encoded protein(s), or any metabolite produced by the encoded protein may be monitored or detected in a sample, such as a bodily tissue or fluid sample to identify or diagnose a physiological state of an organism. Such samples may include any tissue or fluid sample, including urine, blood and easily obtainable cells such as peripheral lymphocytes.

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Use of the Markers for Monitoring Toxicity Progression

As described above, the genes and gene expression information provided in Tables 1-5 may also be used as markers for the monitoring of toxicity progression, such as that found after initial exposure to a drug, drug candidate, toxin, pollutant, etc. For instance, a tissue or cell sample may be assayed by any of the methods described above, and the expression levels from a gene or genes from Tables 1-5 may be compared to the expression levels found in tissue or cells exposed to the renal toxins described herein. The comparison of the expression data, as well as available sequence or other information may be done by a researcher or diagnostician or may be done with the aid of a computer and databases.

Use of the Toxicity Markers for Drug Screening

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According to the present invention, the genes identified in Tables 1-5 may be used as markers or drug targets to evaluate the effects of a candidate drug, chemical compound or other agent on a cell or tissue sample. The genes may also be used as drug targets to screen for agents that modulate their expression and/or activity. In various formats, a candidate drug or agent can be screened for the ability to stimulate the transcription or expression of a given marker or markers or to down-regulate or counteract the transcription or expression of a marker or markers. According to the present invention, one can also compare the specificity of a drug's effects by looking at the number of markers which the drug induces and comparing them. More specific drugs will have less transcriptional targets. Similar sets of markers identified for two drugs may indicate a similarity of effects.

Assays to monitor the expression of a marker or markers as defined in Tables 1-5 may utilize any available means of monitoring for changes in the expression level of the nucleic acids of the invention. As used herein, an agent is said to modulate the expression of a nucleic acid of the invention if it is capable of up- or down-regulating expression of the nucleic acid in a cell.

In one assay format, gene chips containing probes to one, two or more genes from Tables 1-5 may be used to directly monitor or detect changes in gene expression in the treated or exposed cell. Cell lines, tissues or other samples are first exposed to a test agent and in some instances, a known toxin, and the detected expression levels of one or more, or preferably 2 or more of the genes of Tables 1-5 are compared to the expression

levels of those same genes exposed to a known toxin alone. Compounds that modulate the expression patterns of the known toxin(s) would be expected to modulate potential toxic physiological effects *in vivo*. The genes in Tables 1-5 are particularly appropriate markers in these assays as they are differentially expressed in cells upon exposure to a known renal toxin. Tables 1 and 2 disclose those genes that are differentially expressed upon exposure to the named toxins and their corresponding GenBank Accession numbers. Table 3 discloses the human homologues and the corresponding GenBank Accession numbers of the differentially expressed genes of Tables 1 and 2.

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In another format, cell lines that contain reporter gene fusions between the open reading frame and/or the transcriptional regulatory regions of a gene in Tables 1-5 and any assayable fusion partner may be prepared. Numerous assayable fusion partners are known and readily available including the firefly luciferase gene and the gene encoding chloramphenical acetyltransferase (Alam et al. (1990), Anal Biochem 188: 245-254). Cell lines containing the reporter gene fusions are then exposed to the agent to be tested under appropriate conditions and time. Differential expression of the reporter gene between samples exposed to the agent and control samples identifies agents which modulate the expression of the nucleic acid.

Additional assay formats may be used to monitor the ability of the agent to modulate the expression of a gene identified in Tables 1-5. For instance, as described above, mRNA expression may be monitored directly by hybridization of probes to the nucleic acids of the invention. Cell lines are exposed to the agent to be tested under appropriate conditions and time, and total RNA or mRNA is isolated by standard procedures such those disclosed in Sambrook *et al.* (Molecular Cloning: A Laboratory Manual, 2nd Ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

In another assay format, cells or cell lines are first identified which express the gene products of the invention physiologically. Cells and/or cell lines so identified would be expected to comprise the necessary cellular machinery such that the fidelity of modulation of the transcriptional apparatus is maintained with regard to exogenous contact of agent with appropriate surface transduction mechanisms and/or the cytosolic cascades. Further, such cells or cell lines may be transduced or transfected with an expression vehicle (e.g., a plasmid or viral vector) construct comprising an operable non-translated 5'-promoter containing end of the structural gene encoding the gene products

of Tables 1-5 fused to one or more antigenic fragments or other detectable markers, which are peculiar to the instant gene products, wherein said fragments are under the transcriptional control of said promoter and are expressed as polypeptides whose molecular weight can be distinguished from the naturally occurring polypeptides or may further comprise an immunologically distinct or other detectable tag. Such a process is well known in the art (see Sambrook et al., supra).

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Cells or cell lines transduced or transfected as outlined above are then contacted with agents under appropriate conditions; for example, the agent comprises a pharmaceutically acceptable excipient and is contacted with cells comprised in an aqueous physiological buffer such as phosphate buffered saline (PBS) at physiological pH, Eagles balanced salt solution (BSS) at physiological pH, PBS or BSS comprising serum or conditioned media comprising PBS or BSS and/or serum incubated at 37°C. Said conditions may be modulated as deemed necessary by one of skill in the art. Subsequent to contacting the cells with the agent, said cells are disrupted and the polypeptides of the lysate are fractionated such that a polypeptide fraction is pooled and contacted with an antibody to be further processed by immunological assay (e.g., ELISA, immunoprecipitation or Western blot). The pool of proteins isolated from the agentcontacted sample is then compared with the control samples (no exposure and exposure to a known toxin) where only the excipient is contacted with the cells and an increase or decrease in the immunologically generated signal from the agent-contacted sample compared to the control is used to distinguish the effectiveness and/or toxic effects of the agent.

Another embodiment of the present invention provides methods for identifying agents that modulate at least one activity of a protein(s) encoded by the genes in Tables 1-5. Such methods or assays may utilize any means of monitoring or detecting the desired activity.

In one format, the relative amounts of a protein (Tables 1-5) between a cell population that has been exposed to the agent to be tested compared to an un-exposed control cell population and a cell population exposed to a known toxin may be assayed. In this format, probes such as specific antibodies are used to monitor the differential expression of the protein in the different cell populations. Cell lines or populations are exposed to the agent to be tested under appropriate conditions and time. Cellular lysates

may be prepared from the exposed cell line or population and a control, unexposed cell line or population. The cellular lysates are then analyzed with the probe, such as a specific antibody.

Agents that are assayed in the above methods can be randomly selected or rationally selected or designed. As used herein, an agent is said to be randomly selected when the agent is chosen randomly without considering the specific sequences involved in the association of a protein of the invention alone or with its associated substrates, binding partners, etc. An example of randomly selected agents is the use a chemical library or a peptide combinatorial library, or a growth broth of an organism.

As used herein, an agent is said to be rationally selected or designed when the agent is chosen on a nonrandom basis which takes into account the sequence of the target site and/or its conformation in connection with the agent's action. Agents can be rationally selected or rationally designed by utilizing the peptide sequences that make up these sites. For example, a rationally selected peptide agent can be a peptide whose amino acid sequence is identical to or a derivative of any functional consensus site.

The agents of the present invention can be, as examples, peptides, small molecules, vitamin derivatives, as well as carbohydrates. Dominant negative proteins, DNAs encoding these proteins, antibodies to these proteins, peptide fragments of these proteins or mimics of these proteins may be introduced into cells to affect function. "Mimic" used herein refers to the modification of a region or several regions of a peptide molecule to provide a structure chemically different from the parent peptide but topographically and functionally similar to the parent peptide (see G.A. Grant in: Molecular Biology and Biotechnology, Meyers, ed., pp. 659-664, VCH Publishers, New York, 1995). A skilled artisan can readily recognize that there is no limit as to the structural nature of the agents of the present invention.

### Nucleic Acid Assay Formats

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The genes identified as being differentially expressed upon exposure to a known renal toxin (Tables 1-5) may be used in a variety of nucleic acid detection assays to detect or quantify the expression level of a gene or multiple genes in a given sample. The genes described in Tables 1-5 may also be used in combination with one or more additional genes whose differential expression is associate with toxicity in a cell or tissue. In preferred embodiments, the genes in Tables 1-5 may be combined with one or

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more of the genes described in prior and related applications 60/292,335; 60/297,523; 60/298,925; 60/303,810; 60/303,807; 60/303,808; 60/315,047; 60/324,928; 60/330,867; 60/330,462; 60/331,805; 60/336,144; 60/340,873; 60/357,843; 60/357,842; 60/357,844; 60/364,134; 60/370,206; 60/370,247; 60/370,144; 60/371,679; 60/372,794, 09/917,800 and 10/060,087 all of which are incorporated by reference on page 1 of this application.

Any assay format to detect gene expression may be used. For example, traditional Northern blotting, dot or slot blot, nuclease protection, primer directed amplification, RT- PCR, semi- or quantitative PCR, branched-chain DNA and differential display methods may be used for detecting gene expression levels. Those methods are useful for some embodiments of the invention. In cases where smaller numbers of genes are detected, amplification based assays may be most efficient. Methods and assays of the invention, however, may be most efficiently designed with hybridization-based methods for detecting the expression of a large number of genes.

Any hybridization assay format may be used, including solution-based and solid support-based assay formats. Solid supports containing oligonucleotide probes for differentially expressed genes of the invention can be filters, polyvinyl chloride dishes, particles, beads, microparticles or silicon or glass based chips, etc. Such chips, wafers and hybridization methods are widely available, for example, those disclosed by Beattie (WO 95/11755).

Any solid surface to which oligonucleotides can be bound, either directly or indirectly, either covalently or non-covalently, can be used. A preferred solid support is a high density array or DNA chip. These contain a particular oligonucleotide probe in a predetermined location on the array. Each predetermined location may contain more than one molecule of the probe, but each molecule within the predetermined location has an identical sequence. Such predetermined locations are termed features. There may be, for example, from 2, 10, 100, 1000 to 10,000, 100,000 or 400,000 or more of such features on a single solid support. The solid support, or the area within which the probes are attached may be on the order of about a square centimeter. Probes corresponding to the genes of Tables 1-5 or from the related applications described above may be attached to single or multiple solid support structures, e.g., the probes may be attached to a single chip or to multiple chips to comprise a chip set.

Oligonucleotide probe arrays for expression monitoring can be made and used

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according to any techniques known in the art (see for example, Lockhart et al. (1996), Nat Biotechnol 14: 1675-1680; McGall et al. (1996), Proc Nat Acad Sci USA 93: 13555-13460). Such probe arrays may contain at least two or more oligonucleotides that are complementary to or hybridize to two or more of the genes described in Tables 1-5. For instance, such arrays may contain oligonucleotides that are complementary to or hybridize to at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 50, 70, 100 or more of the genes described herein. Preferred arrays contain all or nearly all of the genes listed in Tables 1-5, or individually, the gene sets of Tables 5-5CC. In a preferred embodiment, arrays are constructed that contain oligonucleotides to detect all or nearly all of the genes in any one of or all of Tables 1-5 on a single solid support substrate, such as a chip.

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The sequences of the expression marker genes of Tables 1-5 are in the public databases. Table 1 provides the GenBank Accession Number or NCBI RefSeq ID for each of the sequences (see <a href="www.ncbi.nlm.nih.gov">www.ncbi.nlm.nih.gov</a>). Table 3 provides the LocusLink and Unigene names and descriptions for the human homologues of the genes described in Tables 1 and 2. The sequences of the genes in GenBank and/or RefSeq are expressly herein incorporated by reference in their entirety as of the filing date of this application, as are related sequences, for instance, sequences from the same gene of different lengths, variant sequences, polymorphic sequences, genomic sequences of the genes and related sequences from different species, including the human counterparts, where appropriate. These sequences may be used in the methods of the invention or may be used to produce the probes and arrays of the invention. In some embodiments, the genes in Tables 1-5 that correspond to the genes or fragments previously associated with a toxic response may be excluded from the Tables.

As described above, in addition to the sequences of the GenBank Accession Numbers or NCBI RefSeq ID's disclosed in the Tables 1-5, sequences such as naturally occurring variants or polymorphic sequences may be used in the methods and compositions of the invention. For instance, expression levels of various allelic or homologous forms of a gene disclosed in Tables 1-5 may be assayed. Any and all nucleotide variations that do not alter the functional activity of a gene listed in the Tables 1-5, including all naturally occurring allelic variants of the genes herein disclosed, may be used in the methods and to make the compositions (e.g., arrays) of the invention.

Probes based on the sequences of the genes described above may be prepared by

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any commonly available method. Oligonucleotide probes for screening or assaying a tissue or cell sample are preferably of sufficient length to specifically hybridize only to appropriate, complementary genes or transcripts. Typically the oligonucleotide probes will be at least about 10, 12, 14, 16, 18, 20 or 25 nucleotides in length. In some cases, longer probes of at least 30, 40, or 50 nucleotides will be desirable.

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As used herein, oligonucleotide sequences that are complementary to one or more of the genes described in Tables 1-5 refer to oligonucleotides that are capable of hybridizing under stringent conditions to at least part of the nucleotide sequences of said genes. Such hybridizable oligonucleotides will typically exhibit at least about 75% sequence identity at the nucleotide level to said genes, preferably about 80% or 85% sequence identity or more preferably about 90% or 95% or more sequence identity to said genes.

"Bind(s) substantially" refers to complementary hybridization between a probe nucleic acid and a target nucleic acid and embraces minor mismatches that can be accommodated by reducing the stringency of the hybridization media to achieve the desired detection of the target polynucleotide sequence.

The terms "background" or "background signal intensity" refer to hybridization signals resulting from non-specific binding, or other interactions, between the labeled target nucleic acids and components of the oligonucleotide array (e.g., the oligonucleotide probes, control probes, the array substrate, etc.). Background signals may also be produced by intrinsic fluorescence of the array components themselves. A single background signal can be calculated for the entire array, or a different background signal may be calculated for each target nucleic acid. In a preferred embodiment, background is calculated as the average hybridization signal intensity for the lowest 5% to 10% of the probes in the array, or, where a different background signal is calculated for each target gene, for the lowest 5% to 10% of the probes for each gene. Of course, one of skill in the art will appreciate that where the probes to a particular gene hybridize well and thus appear to be specifically binding to a target sequence, they should not be used in a background signal calculation. Alternatively, background may be calculated as the average hybridization signal intensity produced by hybridization to probes that are not complementary to any sequence found in the sample (e.g. probes directed to nucleic acids of the opposite sense or to genes not found in the sample such as bacterial genes

where the sample is mammalian nucleic acids). Background can also be calculated as the average signal intensity produced by regions of the array that lack any probes at all.

The phrase "hybridizing specifically to" or "specifically hybridizes" refers to the binding, duplexing, or hybridizing of a molecule substantially to or only to a particular nucleotide sequence or sequences under stringent conditions when that sequence is present in a complex mixture (e.g., total cellular) DNA or RNA.

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Assays and methods of the invention may utilize available formats to simultaneously screen at least about 100, preferably about 1000, more preferably about 10,000 and most preferably about 1,000,000 different nucleic acid hybridizations.

As used herein a "probe" is defined as a nucleic acid, capable of binding to a target nucleic acid of complementary sequence through one or more types of chemical bonds, usually through complementary base pairing, usually through hydrogen bond formation. As used herein, a probe may include natural (i.e., A, G, U, C, or T) or modified bases (7-deazaguanosine, inosine, etc.). In addition, the bases in probes may be joined by a linkage other than a phosphodiester bond, so long as it does not interfere with hybridization. Thus, probes may be peptide nucleic acids in which the constituent bases are joined by peptide bonds rather than phosphodiester linkages.

The term "perfect match probe" refers to a probe that has a sequence that is perfectly complementary to a particular target sequence. The test probe is typically perfectly complementary to a portion (subsequence) of the target sequence. The perfect match (PM) probe can be a "test probe", a "normalization control" probe, an expression level control probe and the like. A perfect match control or perfect match probe is, however, distinguished from a "mismatch control" or "mismatch probe."

The terms "mismatch control" or "mismatch probe" refer to a probe whose sequence is deliberately selected not to be perfectly complementary to a particular target sequence. For each mismatch (MM) control in a high-density array there typically exists a corresponding perfect match (PM) probe that is perfectly complementary to the same particular target sequence. The mismatch may comprise one or more bases.

While the mismatch(es) may be located anywhere in the mismatch probe, terminal mismatches are less desirable as a terminal mismatch is less likely to prevent hybridization of the target sequence. In a particularly preferred embodiment, the mismatch is located at or near the center of the probe such that the mismatch is most

likely to destabilize the duplex with the target sequence under the test hybridization conditions.

The term "stringent conditions" refers to conditions under which a probe will hybridize to its target subsequence, but with only insubstantial hybridization to other sequences or to other sequences such that the difference may be identified. Stringent conditions are sequence-dependent and will be different in different circumstances. Longer sequences hybridize specifically at higher temperatures. Generally, stringent conditions are selected to be about 5°C lower than the thermal melting point (Tm) for the specific sequence at a defined ionic strength and pH.

Typically, stringent conditions will be those in which the salt concentration is at least about 0.01 to 1.0 M Na<sup>+</sup> ion concentration (or other salts) at pH 7.0 to 8.3 and the temperature is at least about 30°C for short probes (e.g., 10 to 50 nucleotides). Stringent conditions may also be achieved with the addition of destabilizing agents such as formamide.

The "percentage of sequence identity" or "sequence identity" is determined by comparing two optimally aligned sequences or subsequences over a comparison window or span, wherein the portion of the polynucleotide sequence in the comparison window may optionally comprise additions or deletions (i.e., gaps) as compared to the reference sequence (which does not comprise additions or deletions) for optimal alignment of the two sequences. The percentage is calculated by determining the number of positions at which the identical submit (e.g. nucleic acid base or amino acid residue) occurs in both sequences to yield the number of matched positions, dividing the number of matched positions by the total number of positions in the window of comparison and multiplying the result by 100 to yield the percentage of sequence identity. Percentage sequence identity when calculated using the programs GAP or BESTFIT (see below) is calculated using default gap weights.

## Probe design

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One of skill in the art will appreciate that an enormous number of array designs are suitable for the practice of this invention. The high density array will typically include a number of test probes that specifically hybridize to the sequences of interest. Probes may be produced from any region of the genes identified in the Tables and the attached representative sequence listing. In instances where the gene reference in the

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Tables is an EST, probes may be designed from that sequence or from other regions of the corresponding full-length transcript that may be available in any of the sequence databases, such as those herein described. See WO 99/32660 for methods of producing probes for a given gene or genes. In addition, any available software may be used to produce specific probe sequences, including, for instance, software available from Molecular Biology Insights, Olympus Optical Co. and Biosoft International. In a preferred embodiment, the array will also include one or more control probes.

High density array chips of the invention include "test probes." Test probes may be oligonucleotides that range from about 5 to about 500, or about 7 to about 50 nucleotides, more preferably from about 10 to about 40 nucleotides and most preferably from about 15 to about 35 nucleotides in length. In other particularly preferred embodiments, the probes are 20 or 25 nucleotides in length. In another preferred embodiment, test probes are double or single strand DNA sequences such as cDNA fragments. DNA sequences are isolated or cloned from natural sources or amplified from natural sources using native nucleic acid as templates. These probes have sequences complementary to particular subsequences of the genes whose expression they are designed to detect. Thus, the test probes are capable of specifically hybridizing to the target nucleic acid they are to detect.

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In addition to test probes that bind the target nucleic acid(s) of interest, the high density array can contain a number of control probes. The control probes may fall into three categories referred to herein as 1) normalization controls; 2) expression level controls; and 3) mismatch controls.

Normalization controls are oligonucleotide or other nucleic acid probes that are complementary to labeled reference oligonucleotides or other nucleic acid sequences that are added to the nucleic acid sample to be screened. The signals obtained from the normalization controls after hybridization provide a control for variations in hybridization conditions, label intensity, "reading" efficiency and other factors that may cause the signal of a perfect hybridization to vary between arrays. In a preferred embodiment, signals (e.g., fluorescence intensity) read from all other probes in the array are divided by the signal (e.g., fluorescence intensity) from the control probes thereby normalizing the measurements.

Virtually any probe may serve as a normalization control. However, it is

recognized that hybridization efficiency varies with base composition and probe length. Preferred normalization probes are selected to reflect the average length of the other probes present in the array, however, they can be selected to cover a range of lengths. The normalization control(s) can also be selected to reflect the (average) base composition of the other probes in the array, however in a preferred embodiment, only one or a few probes are used and they are selected such that they hybridize well (i.e., no secondary structure) and do not match any target-specific probes.

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Expression level controls are probes that hybridize specifically with constitutively expressed genes in the biological sample. Virtually any constitutively expressed gene provides a suitable target for expression level controls. Typically expression level control probes have sequences complementary to subsequences of constitutively expressed "housekeeping genes" including, but not limited to the actin gene, the transferrin receptor gene, the GAPDH gene, and the like.

Mismatch controls may also be provided for the probes to the target genes, for expression level controls or for normalization controls. Mismatch controls are oligonucleotide probes or other nucleic acid probes identical to their corresponding test or control probes except for the presence of one or more mismatched bases. A mismatched base is a base selected so that it is not complementary to the corresponding base in the target sequence to which the probe would otherwise specifically hybridize. One or more mismatches are selected such that under appropriate hybridization conditions (e.g., stringent conditions) the test or control probe would be expected to hybridize with its target sequence, but the mismatch probe would not hybridize (or would hybridize to a significantly lesser extent). Preferred mismatch probes contain a central mismatch. Thus, for example, where a probe is a 20 mer, a corresponding mismatch probe will have the identical sequence except for a single base mismatch (e.g., substituting a G, a C or a T for an A) at any of positions 6 through 14 (the central mismatch).

Mismatch probes thus provide a control for non-specific binding or cross hybridization to a nucleic acid in the sample other than the target to which the probe is directed. For example, if the target is present the perfect match probes should be consistently brighter than the mismatch probes. In addition, if all central mismatches are present, the mismatch probes can be used to detect a mutation, for instance, a mutation of

a gene in the accompanying Tables 1-5. The difference in intensity between the perfect match and the mismatch probe provides a good measure of the concentration of the hybridized material.

Nucleic Acid Samples

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Cell or tissue samples may be exposed to the test agent in vitro or in vivo. When cultured cells or tissues are used, appropriate mammalian cell extracts, such as liver extracts, may also be added with the test agent to evaluate agents that may require biotransformation to exhibit toxicity. In a preferred format, primary isolates of animal or human renal cells which already express the appropriate complement of drugmetabolizing enzymes may be exposed to the test agent without the addition of mammalian kidney extracts.

The genes which are assayed according to the present invention are typically in the form of mRNA or reverse transcribed mRNA. The genes may or may not be cloned. The genes may or may not be amplified. The cloning and/or amplification do not appear to bias the representation of genes within a population. In some assays, it may be preferable, however, to use polyA+ RNA as a source, as it can be used with less processing steps.

As is apparent to one of ordinary skill in the art, nucleic acid samples used in the methods and assays of the invention may be prepared by any available method or process. Methods of isolating total mRNA are well known to those of skill in the art. For example, methods of isolation and purification of nucleic acids are described in detail in Chapter 3 of Laboratory Techniques in Biochemistry and Molecular Biology, Vol. 24, Hybridization With Nucleic Acid Probes: Theory and Nucleic Acid Probes, P. Tijssen, Ed., Elsevier Press, New York, 1993. Such samples include RNA samples, but also include cDNA synthesized from a mRNA sample isolated from a cell or tissue of interest. Such samples also include DNA amplified from the cDNA, and RNA transcribed from the amplified DNA. One of skill in the art would appreciate that it is desirable to inhibit or destroy RNase present in homogenates before homogenates are used.

Biological samples may be of any biological tissue or fluid or cells from any organism as well as cells raised *in vitro*, such as cell lines and tissue culture cells. Frequently the sample will be a tissue or cell sample that has been exposed to a

compound, agent, drug, pharmaceutical composition, potential environmental pollutant or other composition. In some formats, the sample will be a "clinical sample" which is a sample derived from a patient. Typical clinical samples include, but are not limited to, sputum, blood, blood-cells (e.g., white cells), tissue or fine needle biopsy samples, urine, peritoneal fluid, and pleural fluid, or cells therefrom. Biological samples may also include sections of tissues, such as frozen sections or formalin fixed sections taken for histological purposes.

#### Forming High Density Arrays

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Methods of forming high density arrays of oligonucleotides with a minimal number of synthetic steps are known. The oligonucleotide analogue array can be synthesized on a single or on multiple solid substrates by a variety of methods, including, but not limited to, light-directed chemical coupling, and mechanically directed coupling (see Pirrung, U.S. Patent No. 5,143,854).

In brief, the light-directed combinatorial synthesis of oligonucleotide arrays on a glass surface proceeds using automated phosphoramidite chemistry and chip masking techniques. In one specific implementation, a glass surface is derivatized with a silane reagent containing a functional group, e.g., a hydroxyl or amine group blocked by a photolabile protecting group. Photolysis through a photolithographic mask is used selectively to expose functional groups which are then ready to react with incoming 5' photoprotected nucleoside phosphoramidites. The phosphoramidites react only with those sites which are illuminated (and thus exposed by removal of the photolabile blocking group). Thus, the phosphoramidites only add to those areas selectively exposed from the preceding step. These steps are repeated until the desired array of sequences have been synthesized on the solid surface. Combinatorial synthesis of different oligonucleotide analogues at different locations on the array is determined by the pattern of illumination during synthesis and the order of addition of coupling reagents.

In addition to the foregoing, additional methods which can be used to generate an array of oligonucleotides on a single substrate are described in PCT Publication Nos. WO 93/09668 and WO 01/23614. High density nucleic acid arrays can also be fabricated by depositing pre-made or natural nucleic acids in predetermined positions. Synthesized or natural nucleic acids are deposited on specific locations of a substrate by light directed targeting and oligonucleotide directed targeting. Another embodiment uses

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a dispenser that moves from region to region to deposit nucleic acids in specific spots.

Hybridization

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Nucleic acid hybridization simply involves contacting a probe and target nucleic acid under conditions where the probe and its complementary target can form stable hybrid duplexes through complementary base pairing. See WO 99/32660. The nucleic acids that do not form hybrid duplexes are then washed away leaving the hybridized nucleic acids to be detected, typically through detection of an attached detectable label. It is generally recognized that nucleic acids are denatured by increasing the temperature or decreasing the salt concentration of the buffer containing the nucleic acids. Under low stringency conditions (e.g., low temperature and/or high salt) hybrid duplexes (e.g., DNA:DNA, RNA:RNA, or RNA:DNA) will form even where the annealed sequences are not perfectly complementary. Thus, specificity of hybridization is reduced at lower stringency. Conversely, at higher stringency (e.g., higher temperature or lower salt) successful hybridization tolerates fewer mismatches. One of skill in the art will appreciate that hybridization conditions may be selected to provide any degree of stringency.

In a preferred embodiment, hybridization is performed at low stringency, in this case in 6x SSPET at 37°C (0.005% Triton X-100), to ensure hybridization and then subsequent washes are performed at higher stringency (e.g., 1x SSPET at 37°C) to eliminate mismatched hybrid duplexes. Successive washes may be performed at increasingly higher stringency (e.g., down to as low as 0.25x SSPET at 37°C to 50°C) until a desired level of hybridization specificity is obtained. Stringency can also be increased by addition of agents such as formamide. Hybridization specificity may be evaluated by comparison of hybridization to the test probes with hybridization to the various controls that can be present (e.g., expression level control, normalization control, mismatch controls, etc.).

In general, there is a tradeoff between hybridization specificity (stringency) and signal intensity. Thus, in a preferred embodiment, the wash is performed at the highest stringency that produces consistent results and that provides a signal intensity greater than approximately 10% of the background intensity. Thus, in a preferred embodiment, the hybridized array may be washed at successively higher stringency solutions and read between each wash. Analysis of the data sets thus produced will reveal a wash

stringency above which the hybridization pattern is not appreciably altered and which provides adequate signal for the particular oligonucleotide probes of interest.

#### Signal Detection

The hybridized nucleic acids are typically detected by detecting one or more labels attached to the sample nucleic acids. The labels may be incorporated by any of a number of means well known to those of skill in the art. See WO 99/32660.

#### Databases

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The present invention includes relational databases containing sequence information, for instance, for the genes of Tables 1-5, as well as gene expression information from tissue or cells exposed to various standard toxins, such as those herein described (see Tables 5-5CC). Databases may also contain information associated with a given sequence or tissue sample such as descriptive information about the gene associated with the sequence information (see Tables 1 and 2), or descriptive information concerning the clinical status of the tissue sample, or the animal from which the sample was derived. The database may be designed to include different parts, for instance a sequence database and a gene expression database. Methods for the configuration and construction of such databases and computer-readable media to which such databases are saved are widely available, for instance, see U.S. Patent No. 5,953,727, which is herein incorporated by reference in its entirety.

The databases of the invention may be linked to an outside or external database such as GenBank (www.ncbi.nlm.nih.gov/entrez.index.html); KEGG (www.genome.ad.jp/kegg); SPAD (www.grt.kyushu-u.ac.jp/spad/index.html); HUGO (www.gene.ucl.ac.uk/hugo); Swiss-Prot (www.expasy.ch.sprot); Prosite (www.expasy.ch/tools/scnpsit1.html); OMIM (www.ncbi.nlm.nih.gov/omim); and GDB (www.gdb.org). In a preferred embodiment, as described in Tables 1-5, the external database is GenBank and the associated databases maintained by the National Center for Biotechnology Information (NCBI) (www.ncbi.nlm.nih.gov).

Any appropriate computer platform, user interface, etc. may be used to perform the necessary comparisons between sequence information, gene expression information and any other information in the database or information provided as an input. For example, a large number of computer workstations are available from a variety of manufacturers, such has those available from Silicon Graphics. Client/server

environments, database servers and networks are also widely available and appropriate platforms for the databases of the invention.

The databases of the invention may be used to produce, among other things, electronic Northerns that allow the user to determine the cell type or tissue in which a given gene is expressed and to allow determination of the abundance or expression level of a given gene in a particular tissue or cell.

The databases of the invention may also be used to present information identifying the expression level in a tissue or cell of a set of genes comprising one or more of the genes in Tables 1-5, comprising the step of comparing the expression level of at least one gene in Tables 1-5 in a cell or tissue exposed to a test agent to the level of expression of the gene in the database. Such methods may be used to predict the toxic potential of a given compound by comparing the level of expression of a gene or genes in Tables 1-5 from a tissue or cell sample exposed to the test agent to the expression levels found in a control tissue or cell samples exposed to a standard toxin or renal toxin such as those herein described. Such methods may also be used in the drug or agent screening assays as described herein.

Kits

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The invention further includes kits combining, in different combinations, high-density oligonucleotide arrays, reagents for use with the arrays, protein reagents encoded by the genes of the Tables, signal detection and array-processing instruments, gene expression databases and analysis and database management software described above. The kits may be used, for example, to predict or model the toxic response of a test compound, to monitor the progression of renal disease states, to identify genes that show promise as new drug targets and to screen known and newly designed drugs as discussed above.

The databases packaged with the kits are a compilation of expression patterns from human or laboratory animal genes and gene fragments (corresponding to the genes of Tables 1-5). In particular, the database software and packaged information that may contain the databases saved to a computer-readable medium include the expression results of Tables 1-5 that can be used to predict toxicity of a test agent by comparing the expression levels of the genes of Tables 1-5 induced by the test agent to the expression levels presented in Tables 5-5CC. In another format, database and software information

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may be provided in a remote electronic format, such as a website, the address of which may be packaged in the kit.

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The kits may used in the pharmaceutical industry, where the need for early drug testing is strong due to the high costs associated with drug development, but where bioinformatics, in particular gene expression informatics, is still lacking. These kits will reduce the costs, time and risks associated with traditional new drug screening using cell cultures and laboratory animals. The results of large-scale drug screening of pre-grouped patient populations, pharmacogenomics testing, can also be applied to select drugs with greater efficacy and fewer side-effects. The kits may also be used by smaller biotechnology companies and research institutes who do not have the facilities for performing such large-scale testing themselves.

Databases and software designed for use with microarrays is discussed in Balaban et al., U.S. Patent Nos. 6,229,911, a computer-implemented method for managing information, stored as indexed Tables 1-5, collected from small or large numbers of microarrays, and 6,185,561, a computer-based method with data mining capability for collecting gene expression level data, adding additional attributes and reformatting the data to produce answers to various queries. Chee et al., U.S. Patent No. 5,974,164, disclose a software-based method for identifying mutations in a nucleic acid sequence based on differences in probe fluorescence intensities between wild type and mutant sequences that hybridize to reference sequences.

Without further description, it is believed that one of ordinary skill in the art can, using the preceding description and the following illustrative examples, make and utilize the compounds of the present invention and practice the claimed methods. The following working examples therefore, specifically point out the preferred embodiments of the present invention, and are not to be construed as limiting in any way the remainder of the disclosure.

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#### **EXAMPLES**

# **Example 1: Identification of Toxicity Markers**

The renal toxins cephaloridine, cisplatin, puromycin aminonucleoside (PAN), bromoethylamine hydrobromide (BEA), gentamicin, ifosfamide, cyclophosphamide, carboplatin, AY-25329, indomethacin, acyclovir, citrinin, mercuric chloride, diflunisal, cidofovir, pamidronate, lithium, hydralazine, colchicine, sulfadiazine, and adriamycin and control compositions were administered to male Sprague-Dawley rats at various timepoints using administration diluents, protocols and dosing regimes as previously described in the art and previously described in the priority applications discussed above.

10 The low and high dose level for each compound are provided in the chart below.

Renal Toxin	Low Dose (mg/kg)	High Dose (mg/kg)	Method of Administration	
cephaloridine	100	800	intravenous	
cisplatin	1	5	intravenous	
PAN	10	150	intravenous	
BEA	10	200	intraperitoneal	
gentamicin	2	80	intramuscular	
ifosfamide	5	100	intraperitoneal	
cyclophosphamide	20	2000	intraperitoneal	
carboplatin	5	50	intravenous	
AY-25329	25	250	oral gavage	
indomethacin	1	10	oral gavage	
acyclovir	10	100	intraperitoneal	
citrinin	1	35	intraperitoneal	
mercuric chloride	0.1	1	intravenous	
diflunisal	2	400	oral gavage	
cidofovir	10	100	intraperitoneal-	
pamidronate	. 1	60	intraperitoneal	
lithium	0.3 (nmol/kg)	3 (nmol/kg)	intraperitoneal	
hydralazine	2.5	25	intraperitoneal	
colchicine	0.15	1.5	intraperitoneal	
sulfadiazine	100	1000	intravenous	
adriamycin	1.3	12.8	intravenous	

After administration, the dosed animals were observed and tissues were collected as described below:

#### **OBSERVATION OF ANIMALS**

1. Clinical Observations-

Twice daily: mortality and moribundity check.

Cage Side Observations - skin and fur, eyes and
mucous membrane, respiratory system, circulatory
system, autonomic and central nervous system,
somatomotor pattern, and behavior pattern.

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Potential signs of toxicity, including tremors, convulsions, salivation, diarrhea, lethargy, coma or other atypical behavior or appearance, were recorded as they occurred and included a time of onset, degree, and duration.

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2. Physical Examinations-

Prior to randomization, prior to initial treatment, and prior to sacrifice.

3. Body Weights-

Prior to randomization, prior to initial treatment, and prior to sacrifice.

#### 10 CLINICAL PATHOLOGY

1. Frequency

Prior to necropsy.

2. Number of animals

All surviving animals.

3. Bleeding Procedure

Blood was obtained by puncture of the orbital sinus while under 70% CO<sub>2</sub>/ 30% O<sub>2</sub> anesthesia.

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Collection of Blood Samples Approximately 0.5 mL of blood was collected into EDTA tubes for evaluation of

hematology parameters. Approximately 1 mL of blood was collected into serum separator tubes for clinical chemistry analysis. Approximately 200 uL of plasma was obtained and frozen at ~-80°C for

test compound/metabolite estimation. An

additional ~2 mL of blood was collected into a 15 mL conical polypropylene vial to which ~3 mL of Trizol was immediately added. The contents were immediately mixed with a vortex and by repeated inversion. The tubes were frozen in liquid nitrogen

and stored at ~-80°C.

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## **TERMINATION PROCEDURES**

#### Terminal Sacrifice

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Approximately 3, 6, 24, 48, 72, 120, 144, 168, 336, and/or 360 hours after

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the initial dose, rats were weighed, physically examined, sacrificed by decapitation, and exsanguinated. The animals were necropsied within approximately five minutes of sacrifice. Separate sterile, disposable instruments were used for each animal, with the exception of bone cutters, which were used to open the skull cap. The bone cutters were dipped in disinfectant solution between animals.

Necropsies were conducted on each animal following procedures approved by board-certified pathologists.

Animals not surviving until terminal sacrifice were discarded without necropsy (following euthanasia by carbon dioxide asphyxiation, if moribund). The approximate time of death for moribund or found dead animals was recorded.

#### Postmortem Procedures

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Fresh and sterile disposable instruments were used to collect tissues. Gloves were worn at all times when handling tissues or vials. All tissues were collected and frozen within approximately 5 minutes of the animal's death. The liver sections and kidneys were frozen within approximately 3-5 minutes of the animal's death. The time of euthanasia, an interim time point at freezing of liver sections and kidneys, and time at completion of necropsy were recorded. Tissues were stored at approximately -80°C or preserved in 10% neutral buffered formalin.

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#### Tissue Collection and Processing

#### Liver

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- Right medial lobe snap frozen in liquid nitrogen and stored at ~-80°C.
- 2. Left medial lobe Preserved in 10% neutral-buffered formalin (NBF) and evaluated for gross and microscopic pathology.
- 3. Left lateral lobe snap frozen in liquid nitrogen and stored at ~-80°C.

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#### Heart

A sagittal cross-section containing portions of the two atria and of the two ventricles was preserved in 10% NBF. The remaining heart was frozen in liquid nitrogen and stored at  $\sim -80$ °C.

#### 5 Kidneys (both)

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- 1. Left Hemi-dissected; half was preserved in 10% NBF and the remaining half was frozen in liquid nitrogen and stored at  $\sim$  -80°C.
- 2. Right Hemi-dissected; half was preserved in 10% NBF and the remaining half was frozen in liquid nitrogen and stored at ~-80°C.

## Testes (both)

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A sagittal cross-section of each testis was preserved in 10% NBF. The remaining testes were frozen together in liquid nitrogen and stored at ~-80°C.

#### Brain (whole)

A cross-section of the cerebral hemispheres and of the diencephalon was preserved in 10% NBF, and the rest of the brain was frozen in liquid nitrogen and stored at  $\sim$  -80°C.

Microarray sample preparation was conducted with minor modifications, following the protocols set forth in the Affymetrix GeneChip Expression Analysis Manual. Frozen tissue was ground to a powder using a Spex Certiprep 6800 Freezer Mill. Total RNA was extracted with Trizol (GibcoBRL) utilizing the manufacturer's protocol. The total RNA yield for each sample was 200-500 μg per 300 mg tissue weight. mRNA was isolated using the Oligotex mRNA Midi kit (Qiagen) followed by ethanol precipitation. Double stranded cDNA was generated from mRNA using the SuperScript Choice system (GibcoBRL). First strand cDNA synthesis was primed with a T7-(dT24) oligonucleotide. The cDNA was phenol-chloroform extracted and ethanol precipitated to a final concentration of 1 μg/ml. From 2 μg of cDNA, cRNA was synthesized using Ambion's T7 MegaScript in vitro Transcription Kit.

To biotin label the cRNA, nucleotides Bio-11-CTP and Bio-16-UTP (Enzo

GeneExpress2000, and S-Plus.

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Diagnostics) were added to the reaction. Following a 37°C incubation for six hours, impurities were removed from the labeled cRNA following the RNeasy Mini kit protocol (Qiagen). cRNA was fragmented (fragmentation buffer consisting of 200 mM Trisacetate, pH 8.1, 500 mM KOAc, 150 mM MgOAc) for thirty-five minutes at 94°C. Following the Affymetrix protocol, 55 µg of fragmented cRNA was hybridized on the Affymetrix rat array set for twenty-four hours at 60 rpm in a 45°C hybridization oven. The chips were washed and stained with Streptavidin Phycoerythrin (SAPE) (Molecular Probes) in Affymetrix fluidics stations. To amplify staining, SAPE solution was added twice with an anti-streptavidin biotinylated antibody (Vector Laboratories) staining step in between. Hybridization to the probe arrays was detected by fluorometric scanning (Hewlett Packard Gene Array Scanner). Data was analyzed using Affymetrix

Tables 1 and 2 disclose those genes that are differentially expressed upon exposure to the named toxins and their corresponding GenBank Accession and Sequence Identification numbers, the identities of the metabolic pathways in which the genes function, the gene names if known, and the unigene cluster titles. The model code represents the various toxicity state that each gene is able to discriminate as well as the individual toxin type associated with each gene. The codes are defined in Table 4. The GLGC ID is the internal Gene Logic identification number.

GeneChip® version 2.0 and Expression Data Mining (EDMT) software (version 1.0),

Table 3 discloses those genes that are the human homologues of those genes in Tables 1 and 2 that are differentially expressed upon exposure to the named toxins. The corresponding GenBank Accession and Sequence Identification numbers, the gene names if known, and the unigene cluster titles of the human homologues are listed.

Table 4 defines the comparison codes used in Tables 1, 2, 3, and 5.

Tables 5-5CC disclose the summary statistics for each of the comparisons performed. Each of these tables contains a set of predictive genes and creates a model for predicting the renal toxicity of an unknown, *i.e.*, untested compound. Each gene is identified by its Gene Logic identification number and can be cross-referenced to a gene name and representative SEQ ID NO. in Tables 1 and 2. For each comparison of gene expression levels between samples in the toxicity group (samples affected by exposure to a specific toxin) and samples in the non-toxicity group (samples not affected by exposure

to that same specific toxin), the tox mean (for toxicity group samples) is the mean signal intensity, as normalized for the various chip parameters that are being assayed. The non-tox mean represents the mean signal intensity, as normalized for the various chip parameters that are being assayed, in samples from animals other than those treated with the high dose of the specific toxin. These animals were treated with a low dose of the specific toxin, or with vehicle alone, or with a different toxin. Samples in the toxicity groups were obtained from animals sacrificed at the timepoint(s) indicated in the Table 5 headings, while samples in the non-toxicity groups were obtained from animals sacrificed at all time points in the experiments. For individual genes, an increase in the tox mean compared to the non-tox mean indicates up-regulation upon exposure to a toxin. Conversely, a decrease in the tox mean compared to the non-tox mean indicates down-regulation.

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The mean values are derived from Average Difference (AveDiff) values for a particular gene, averaged across the corresponding samples. Each individual Average Difference value is calculated by integrating the intensity information from multiple probe pairs that are tiled for a particular fragment. The normalization multiplies each expression intensity for a given experiment (chip) by a global scaling factor. The intent of this normalization is to make comparisons of individual genes between chips possible. The scaling factor is calculated as follows:

- 1. From all the unnormalized expression values in the experiment, delete the largest 2% and smallest 2% of the values. That is, if the experiment yields 10,000 expression values, order the values and delete the smallest 200 and largest 200.
  - 2. Compute the trimmed mean, which is equal to the mean of the remaining values.
    - 3. Compute the scale factor SF = 100/(trimmed mean)

The value of 100 used here is the standard target valued used. Some AveDiff values may be negative due to the general noise involved in nucleic acid hybridization experiments. Although many conclusions can be made corresponding to a negative value on the GeneChip platform, it is difficult to assess the meaning behind the negative value for individual fragments. Our observations show that, although negative values are observed at times within the predictive gene set, these values reflect a real biological

phenomenon that is highly reproducible across all the samples from which the measurement was taken. For this reason, those genes that exhibit a negative value are included in the predictive set. It should be noted that other platforms of gene expression measurement may be able to resolve the negative numbers for the corresponding genes.

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The predictive ability of each of those genes should extend across platforms, however. 5 Each mean value is accompanied by the standard deviation for the mean. The linear discriminant analysis score (discriminant score), as disclosed in the tables, measures the ability of each gene to predict whether or not a sample is toxic. The discriminant score is calculated by the following steps:

#### 10 Calculation of a discriminant score

Let X<sub>i</sub> represent the AveDiff values for a given gene across the non-tox samples, i=1...n. Let Y<sub>i</sub> represent the AveDiff values for a given gene across the tox samples, i=1...t.

The calculations proceed as follows:

- 1. Calculate mean and standard deviation for X<sub>i</sub>'s and Y<sub>i</sub>'s, and denote these by m<sub>x</sub>, m<sub>y</sub>,
- 15  $s_x, s_y$ .

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- 2. For all X<sub>i</sub>'s and Y<sub>i</sub>'s, evaluate the function  $f(z) = ((1/s_y)*exp(-.5*((z-m_y)/s_y)^2)) / (1/s_y)*exp(-.5*((z-m_y)/s_y)^2))$  $(((1/s_y)*exp(-.5*((z-m_y)/s_y)^2))+((1/s_x)*exp(-.5*((z-m_y)/s_y)^2))).$
- 3. The number of correct predictions, say P, is then the number of  $Y_i$ 's such that  $f(Y_i) > .5$ plus the number of  $X_i$ 's such that  $f(X_i) < .5$ .
- 20 4. The discriminant score is then P/(n+t).

Linear discriminant analysis uses both the individual measurements of each gene and the calculated measurements of all combinations of genes to classify samples. For each gene a weight is derived from the mean and standard deviation of the toxic and nontox groups. Every gene is multiplied by a weight and the sum of these values results in a collective discriminate score. This discriminant score is then compared against collective centroids of the tox and nontox groups. These centroids are the average of all tox and nontox samples respectively. Therefore, each gene contributes to the overall prediction. This contribution is dependent on weights that are large positive or negative numbers if the relative distances between the tox and nontox samples for that gene are large and small numbers if the relative distances are small. The discriminant score for each unknown sample and centroid values can be used to calculate a probability between zero and one as to the group in which the unknown sample belongs.

#### **Example 2: General Toxicity Modeling**

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Samples were selected for grouping into tox-responding and non-tox-responding groups by examining each study individually with Principal Components Analysis (PCA) to determine which treatments had an observable response. Only groups where confidence of their tox-responding and non-tox-responding status was established were included in building a general tox model (Table 5).

Linear discriminant models were generated to describe toxic and non-toxic samples. The top discriminant genes and/or EST's were used to determine toxicity by calculating each gene's contribution with homo and heteroscedastic treatment of variance and inclusion or exclusion of mutual information between genes. Prediction of samples within the database exceeded 80% true positives with a false positive rate of less than 5%. It was determined that combinations of genes and/or EST's generally provided a better predictive ability than individual genes and that the more genes and/or EST used the better predictive ability. Although the preferred embodiment includes fifty or more genes, many pairings or greater combinations of genes and/or EST can work better than individual genes. All combinations of two or more genes from the selected list (Table 5) could be used to predict toxicity. These combinations could be selected by pairing in an agglomerate, divisive, or random approach. Further, as yet undetermined genes and/or EST's could be combined with individual or combination of genes and/or EST's described here to increase predictive ability. However, the genes and/or EST's described here would contribute most of the predictive ability of any such undetermined combinations.

Other variations on the above method can provide adequate predictive ability. These include selective inclusion of components via agglomerate, divisive, or random approaches or extraction of loading and combining them in agglomerate, divisive, or random approaches. Also the use of composite variables in logistic regression to determine classification of samples can also be accomplished with linear discriminate analysis, neural or Bayesian networks, or other forms of regression and classification based on categorical or continual dependent and independent variables.

#### 30 Example 3: Modeling Methods

The above modeling methods provide broad approaches of combining the expression of genes to predict sample toxicity. One could also provide no weight in a

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simple voting method or determine weights in a supervised or unsupervised method using agglomerate, divisive, or random approaches. All or selected combinations of genes may be combined in ordered, agglomerate, or divisive, supervised or unsupervised clustering algorithms with unknown samples for classification. Any form of correlation matrix may also be used to classify unknown samples. The spread of the group distribution and discriminate score alone provide enough information to enable a skilled person to generate all of the above types of models with accuracy that can exceed discriminate ability of individual genes. Some examples of methods that could be used individually or in combination after transformation of data types include but are not limited to: Discriminant Analysis, Multiple Discriminant Analysis, logistic regression, multiple regression analysis, linear regression analysis, conjoint analysis, canonical correlation, hierarchical cluster analysis, k-means cluster analysis, self-organizing maps, multidimensional scaling, structural equation modeling, support vector machine determined boundaries, factor analysis, neural networks, bayesian classifications, and resampling methods.

#### Example 4: Grouping of Individual compound and Pathology Classes

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Samples were grouped into individual pathology classes based on known toxicological responses and observed clinical chemical and pathology measurements or into early and late phases of observable toxicity within a compound (Tables 5A-5CC). The top 10, 25, 50, 100 genes based on individual discriminate scores were used in a model to ensure that combination of genes provided a better prediction than individual genes. As described above, all combinations of two or more genes from this list could potentially provide better prediction than individual genes when selected in any order or by ordered, agglomerate, divisive, or random approaches. In addition, combining these genes with other genes could provide better predictive ability, but most of this predictive ability would come from the genes listed herein.

Samples may be considered toxic if they score positive in any pathological or individual compound class represented here or in any modeling method mentioned under general toxicology models based on combination of individual time and dose grouping of individual toxic compounds obtainable from the data. The pathological groupings and early and late phase models are preferred examples of all obtainable combinations of sample time and dose points. Most logical groupings with one or more genes and one or

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more sample dose and time points should produce better predictions of general toxicity, pathological specific toxicity, or similarity to known toxicant than individual genes.

Although the present invention has been described in detail with reference to

sexamples above, it is understood that various modifications can be made without departing from the spirit of the invention. Accordingly, the invention is limited only by the following claims. All cited patents, patent applications and publications referred to in this application are herein incorporated by reference in their entirety.

TABLE 1: S	WWW.				<b>Air).</b> Docket No. 44921-698900 Doc. No. 1798897
Эсергености В Кости		Conzent Acel Ref Seq ID	Model :		Unigene Civeter Title
	6949	AA012785	9		ESTs
2	25098	AA108277	h,v		
3·	17312	AA108308	r		ESTs, Highly similar to includes exor 3 through 12 [M.musculus]
4	16882	AA684537	0		ESTs, Moderately similar to NADH- ubiquinone oxidoreductase subunit C SGDH [H.sapiens]
					ESTs, Highly similar to alpha
5	6049	AA685178	у		NAC/1.9.2. protein [M.musculus]
3	4426	AA685974	l,m		ESTs Weakly similar to T23657
,	21815	AA686423	lg		hypothetical protein M01F1.6 - Caenorhabditis elegans [C.elegans]
				DNA-damage inducible	
3	1600	AA686470	i	transcript 3 DNA-damage inducible	DNA-damage inducible transcript 3
3	1599	AA686470 ·	li l	transcript 3	DNA-damage inducible transcript 3
9	21997	AA799325	u		ESTs
10	18396	AA799330	v		ESTs, Highly similar to AF132951 1 CGI-17 protein [H.sapiens]
	10330	741133333			ESTs, Weakly similar to ESR1 RAT ESTROGEN RECEPTOR
	6581	AA799412	f.i		(R.norvegicus)
11	10301	AA799412	<u>','</u>		ESTs, Weakly similar to nucleosome
12	16538	AA799449	k		assembly protein [R.norvegicus] ESTs, Moderately similar to CGI-116
13	23294	AA799472	U		protein [H.sapiens]
14	18290	AA799497	r		ESTs
					ESTs, Moderately similar to hnRNP
15	18981	AA799523	е		protein [R.norvegicus] ESTs, Weakly similar to TCPA RAT
			<u>.</u>		COMPLEX PROTEIN 1, ALPHA
16 17	16993	AA799545 AA799560	b		SUBUNIT [R.norvegicus] ESTs
18	16576	AA799570	d		ESTS
10	10070				ESTs, Highly similar to TBB1 RAT TUBULIN BETA CHAIN
19	18361	AA799591	i.		[R.norvegicus]
20	17712	AA799598	z		ESTs
22	18346	AA799718	f		ESTs
23	8768	AA799726	l .		ESTs
		700700			ESTs, Highly similar to Dgcr6 proteir [M.musculus]
2 <u>4</u> 25	11687	AA799732 AA799744	w	· · ·	[ESTs
26	17494	AA799751	u .		ESTS
27	18360	AA799771	General		ESTs
28	18880	AA799801	w		ESTs
29	20998	AA799803	z		ESTs, Weakly similar to serine protease (R.norvegicus)
<del></del>					ESTs, Highly similar to IRF7 MOUSE INTERFERON REGULATORY
30	21006	AA799861	c		FACTOR 7 [M.musculus]
				•	ESTs, Highly similar to DDRT helix- destabilizing protein - rat
31	15011	AA799893	General		[R.norvegicus] [ESTs, Highly similar to 60S
					RIBOSOMAL PROTEIN L18A
32	20811	AA799899	a		[R.norvegicus] ESTs, Weakly similar to S52675
	1				probable membrane protein YDR109 yeast (Saccharomyces cerevisiae)
33	23202	AA799971	General		[S.cerevisiae]
34	4832	AA800190	b		ESTs, Highly similar to glycogen phosphorylase [R.norvegicus]
35	21656	AA800202	d	<del> </del>	ESTs

TABLE 1: S	ammaria 🤝	(A) (A) (A) (A) (A)	Jan Jan Jan		A VAIN BOOKEI (No. 4411-11111110)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	s,	The state of the state of	j /**	<u> 14 ja – 17 j</u>	Doc. No. 1793997.1
Societies ID No. k., b.	ideniller.	Concent Acc	Model Code	Cono Neiro	Unigeno Civeter Tuo
					ESTs, Weakly similar to T15476
					hypothetical protein C09F5.2 -
36	18433	AA800218	j.y.z		Caenorhabditis elegans [C.elegans]
37	6386	AA800235	U		ESTs
38	18442	AA800258	h,k	· · · · · · · · · · · · · · · · · · ·	ESTs
39	21092	AA800380	y		ESTs, Weakly similar to CORTICOSTEROID 11-BETA- DEHYDROGENASE, ISOZYME 1 [R.norvegicus]
					ESTs, Weakly similar to glutathione
40	17325	AA800587	General		peroxidase [R.norvegicus]
'			cc,		Rattus norvegicus gene for TIS11,
41	13930	AA800613	General		complete cds ESTs
42	21372	AA800693	v	<del></del>	ESTs
42	21373 18161	AA800693 AA800701	s k		ESTs
	6595	AA800753	w		ESTs
44			General		ESTs
45	13348	AA800928	General		ESTs, Highly similar to H2A1 RAT
16	23115	AA801165 .	о,у	•	HISTONE H2A.1 [R.norvegicus]
46 47	12399	AA801307	General		ESTs
48	7543	AA801395	General		ESTs
49	24237	AA817726	t.General		ESTs
	24231	AA611120	t,General		ESTs, Moderately similar to T25763 hypothetical protein F46F11.4 -
50	11215	AA817921	0		Caenorhabditis elegans [C.elegans]
51 .	5985	AA818005	g	-	ESTs
52	11338	AA818016	x		ESTs, Highly similar to rabkinesin-6 [M.musculus]
. 53	2845	AA818026	k,General		ESTs, Weakly similar to PRSC MOUSE 26S PROTEASOME REGULATORY SUBUNIT S12 [M.musculus]
54	16756	AA818089	i,k, General		ESTs, Highly similar to glycyl-tRNA synthetase [H.sapiens]
55	17771	AA818224	e,g,p, General		ESTs, Highly similar to TBB1 RAT TUBULIN BETA CHAIN [R.norvegicus]
-		7.07.02.0			ESTs, Moderately similar to
56	6522	AA818261	g,m		autoantigen p542 [H.sapiens]
57	5924	AA818359	У		ESTs
58	7806	AA818421	b,aa		ESTs
59	8237	AA818512	V		ESTs
60	17434	AA818574	h		ESTs
61 .	8728	AA818615	General		ESTs
62	6054	AA818658	b,v,cc, General	Diphtheria toxin receptor (heparin binding epidermal growth factor - like growth factor)	Diphtheria toxin receptor (heparin binding epidermal growth factor - like growth factor)
63	11590	AA818721	d		ESTs, Moderately similar to S65785 mel-13a protein - mouse [M.musculus]
64	4291	AA818741	q,General	,	ESTs
66	4330	AA919747	o General		ESTs
65	4330	AA818747	o,General	1	ESTs
66 67	13684	AA818761 AA818770	v,General h,j,l,m		Rattus norvegicus serine protease gene, complete cds
68	6322	AA818801	k		ESTs
69	7690	AA818875	General	uroguanylin	uroguanylin
70	4952	AA818907	q,General		ESTs
71	6094	AA818911	t		ESTs
					ESTs, Weakly similar to HP33
72 73	10985	AA818998	o,General	ļ	[R.norvegicus]
<u>/3</u>	6120	AA819008	Įt	<u> </u>	ESTs

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TABUE1: 8	WIMARY				(Ally): Docket No. 44921-5039WG
Sequence i		Concent Acci	Mocel		Soften Control of the
D Ko.	Commo	Rol Scol	©000	Como Namo	Unicas Elveier Tille
					ESTs, Weakly similar to testis specific
74	2586	AA819081	С		protein [R.norvegicus]
76 77	6438 24721	AA819269 AA819306	d.w		ESTs ESTs
<u>''</u>	24/21	AA019300	U,W		Rattus norvegicus mRNA for inositol
					hexakisphosphate kinase, complete
78	6250	AA819376	o,y		cds
80	6281	AA819517			ESTs, Weakly similar to JC5707 HYA22 protein [H.sapiens]
81	10141	AA819526	li .	<del> </del>	ESTs
82	6551	AA819558	t		ESTs
					ESTs, Moderately similar to dJ30M3.1
83 84	6723 14958	AA819653 AA819744	r aa		[H.sapiens] ESTs
84	14938	AA819744	aa		ESTs, Weakly similar to HS9B RAT
			l		HEAT SHOCK PROTEIN HSP 90-
85	19433	AA819776	v		BETA [R.norvegicus]
86	6204	AA819889	aa		ESTs ESTs, Weakly similar to guanosine
•	Ĭ			HMm:inosine 5'-phosphate	monophosphate reductase
87	22820	AA848315	General	dehydrogenase 2	[R.norvegicus]
					ESTs, Weakly similar to T26686
		1			hypothetical protein Y38F1A.6 -
88 89	21125	AA848389 AA848437	bb General	<u> </u>	Caenorhabditis elegans [C.elegans]
69	21123	AA040437	General	<u> </u>	ESTs, Moderately similar to
					IF4B_HUMAN EUKARYOTIC
					TRANSLATION INITIATION FACTOR
90	23504	AA848496	9 .		[48 [H.sapiens]
					ESTs, Weakly similar to FMO1 RAT DIMETHYLANILINE
91	18532	AA848675	g		MONOOXYGENASE [R.norvegicus]
92	21140	AA848738	C		ESTs
					507- 44-4
93	16128	AA848807	0		ESTs, Moderately similar to AF132946 1 CGI-12 protein [H.sapiens]
94	22923	AA848929	a		ESTs
95	17339	AA849497	General		ESTs
96	11727	AA849518	!		ESTs
97	21275	AA849796	i,l,m, General		ESTs
98	16678	AA849827	aa		ESTs
99	8515	AA849917	е		ESTs
100	18447	AA849939	General		ESTs
101	12130	AA850037	Р	cyclase-associated protein	ESTs
102	23981	AA850040	x,aa	homologue	cyclase-associated protein homologue
		1 0 0000 10	-		ESTs, Moderately similar to RB17
					MOUSE RAS-RELATED PROTEIN
103	13615	AA850364	<u>t                                    </u>		RAB-17 [M.musculus]
105	2637	AA850893	×		ESTs, Highly similar to hypothetical protein [H.sapiens]
106	22093	AA850909	å	<del> </del>	ESTs
107	21766	AA850916	c		ESTs
					ESTs, Weakly similar to dithiolethione-
108	2847	AA850919	w		inducible gene-1 [R.norvegicus] Rattus norvegicus mRNA for ras-
					GTPase-activating protein SH3-
109	12162	AA850975	h		domain binding protein, partial cds
110	9514	AA850978	General		ESTs
	2004				ESTs, Highly similar to molybdopterin-
111	3924	AA851017	e,q		synthase large subunit [M.musculus] ESTs, Highly similar to molybdopterin-
111	3925	AA851017	o,General	4	synthase large subunit [M.musculus]
	1		3,00,00		Rattus norvegicus mRNA for
112	4490	AA851184	a,k		cathepsin Y, partial cds

TABLE 18 S	MANALA			49 1 9	**Aux Dochei No. 44921-509000 Doc. No. 1769997.
Scourage	100 (200	ConBank Acc		Y-10	Branch Branch Branch
	Telefallifor	Ref. See D.	(GC) (3)	രണം വിവര	Unigono Givetor Tillo
	(COMMO)	10.00		CO.00 002000	ESTs, Weakly similar to T28050
	•				hypothetical protein ZK856.11 -
113	19187	AA851230	General		Caenorhabditis elegans [C.elegans]
					ESTs, Highly similar to ubiquitin
			l <u>.</u>		specific protease UBP43 [M.musculus]
114	19189	AA851237	c		ESTs, Highly similar to hypothetical
115	15386	AA851241	m		protein [H.sapiens]
					ESTs, Weakly similar to A61382
			g,I,		phosphorylation regulatory protein HP
116	21462	AA851261	General		10 [H.sapiens]
117	21471	AA851343	General	HHs:NADH dehydrogenase	ESTs Moderately similar to
				(ubiquinone) Fe-S protein 8	NUIM HUMAN NADH-UBIQUINONE
				(23kD) (NADH-coenzyme Q	OXIDOREDUCTASE 23 KD SUBUNIT
118	16902	AA851379	р	reductase)	PRECURSOR [H.sapiens]
					ESTs, Moderately similar to kinesin-
119	23376	AA851392	i,x	<u></u>	like DNA binding protein [H.sapiens]
440	2027	44054202			ESTs, Moderately similar to kinesin- like DNA binding protein [H.sapiens]
119 120	23377 13349	AA851392 AA851417	x General		ESTs
121	21527	AA851733	r.u		ESTs
			i,o,u,		Rattus norvegicus osteoactivin mRNA
122	4048	AA851814	General		complete cds
=					ESTs, Highly similar to SSRA HUMAN
					TRANSLOCON-ASSOCIATED PROTEIN, ALPHA SUBUNIT
123	10561	AA851871	bb		PRECURSOR [H.sapiens]
123	10361	MA031011	00		Rattus norvegicus CaM-kinase II
124	17411	AA858621	j.y		inhibitor alpha mRNA, complete cds
			i		ESTs, Weakly similar to MCM6 RAT
					DNA REPLICATION LICENSING
125	1801	AA858636	k,s,x,bb		FACTOR MCM6 [R.norvegicus]
126 127	18350 19484	AA858674 AA858693	p e		ESTs ESTs
128	6360	AA858696	d		ESTs
120	5555	70.00000			ESTs, Weakly similar to Reg receptor
129	17334	AA858704	ρ		[R.norvegicus]
					ESTs, Weakly similar to dJ413H6.1.1
	6380	AA858758	9		[H.sapiens]
131	13219	AA858759	a I,m,Gener		ESTs
132	6384	AA858788	a!		ESTs
102	5554	701000100	<u> </u>	<del></del>	ESTs, Highly similar to p40 seven-
	·				transmembrane-domain protein
134	13412	AA858830	P		[M.musculus]
135	7279	AA858892	f		ESTs
136	18217	AA858930	ī		ESTs ASPARAGINYL-TRNA
				HHs:asparaginyl-tRNA	SYNTHETASE, CYTOPLASMIC
137	5867	AA858953	v.General	synthetase	[H.sapiens]
			,		ESTs, Moderately similar to 156526
					interleukin 1 receptor type I - rat
138	14479	AA858969	r		[R.norvegicus]
139	6431	AA859085	t		ESTs
140	17361	AA859114	o,General		ESTs
141	21025	AA859241	General	outer membrane protein	outer membrane protein
142	10076	AA859271	C	, , , , , , , , , , , , , , , , , , ,	ESTs
					ESTs, Weakly similar to CYSR RAT
			l.		CYSTEINE-RICH PROTEIN 1
143	21791	AA859333	k		[R.norvegicus]
144	16314	V V 8E0346	cc,Gener		ESTs
144 145	16314 18862	AA859348 AA859520	al f		ESTs
146	15059	AA859545	-		ESTs

TAQUE 1: 8	UMMARY:				MATTA DOCUM NO. 44924-5039WG Doc. No. 1793897.
Sequence DNo.1	ldealliter	Goneant Accili Rol Soglei	Modeli Gode	Cone Namo	
147	19894	AA859581	s		Rattus norvegicus late gestation lung protein 1 (LgI1) mRNA, complete cds
148	14353	AA859585	h		ESTs
					ESTs, Weakly similar to DnaJ
149	16318	AA859648	h		homolog 2 [R.norvegicus]
150	17316	AA859652	General		ESTs
151	19067	AA859663	n,q		ESTs
152	22406	AA859680 AA859690	n x		ESTs ESTs
153	14261	AA859693	u		ESTs, Weakly similar to YNH2_CAEEL HYPOTHETICAL 31.0 KD PROTEIN R107.2 IN CHROMOSOME III [C.elegans]
155	14138	AA859700	v	HHs:protoporphyrinogen oxidase	ESTs, Highly similar to PPOX MOUSE PROTOPORPHYRINOGEN OXIDASE [M.musculus]
155	14139	AA859700	٧	HHs:protoporphyrinogen oxidase	ESTs, Highty similar to PPOX MOUSE PROTOPORPHYRINOGEN OXIDASE [M.musculus]
157	22374	AA859804			ESTs, Weakly similar to IF4E MOUSE EUKARYOTIC TRANSLATION INITIATION FACTOR 4E [R.norvegicus]
					ESTs, Moderately similar to LYOX RAT PROTEIN-LYSINE 6-OXIDASE
158	22385	AA859805	b,k		PRECURSOR [R.norvegicus] ESTs
159 160	22773 22816	AA859885 AA859898	n k,x,z	<del></del>	ESTs
161	11891	AA859926	X X		ESTs
	71031	7-7-1003320			ESTs, Highly similar to N-
162	23070	AA859942	k		myristoyltransferase 1 [M.musculus]
163	23121	AA859948	k		ESTs
164	22466	A A 950054	cc,Gener al		ESTs
164	23166	AA859954	ai .		ESTs, Weakly similar to Edp1 protein
165	18468	AA859966	aa		[M.musculus]
166	23336	AA859981	q	HHs:inositol(myo)-1(or 4)- monophosphatase 2	MYO-INOSITOL-1(OR 4)- MONOPHOSPHATASE [R.norvegicus]
167	4222	AA860024	a,bb		ESTs, Highly similar to EF1G_HUMAN ELONGATION FACTOR 1-GAMMA [H.sapiens]
	· .		u,x,Gener al		Rattus norvegicus mRNA for class I
168	13974	AA860030	81	Hyaluronan mediated motility	beta-tubulin, complete cds EST,Hyaluronan mediated motility
169	7090	AA860039	x	receptor (RHAMM)	receptor (RHAMM) ESTs, Moderately similar to T08661
170	23769	AA860055	k,x		anti-silencing protein ASF1 homolog DKFZp547E2110.1 [H.sapiens]
	16323	AA866240	w		EST ESTs, Weakly similar to PE2R RAT 20
	10020				ALDUA LIVEDOVVOTEDOID
171	4462	AA866264	General	•	ALPHA-HYDROXYSTEROID DEHYDROGENASE [R.norvegicus]
171			General		
171 172 173	4462			dioxygenase	DEHYDROGENASE [R.norvegicus] ESTs, Weakly similar to A60543 protein kinase [R.norvegicus] 4-hydroxyphenylpyruvic acid dioxygenase
171 172 173 174	4462 15884	AA866276	k		DEHYDROGENASE [R.norvegicus] ESTs, Weakly similar to A60543 protein kinase [R.norvegicus] 4-hydroxyphenylpyruvic acid dioxygenase Solute carrier family 4, member 1, anion exchange protein 1 (kidney band 3)
171 172 173 174 175	4462 15884 17742	AA866276 AA866302 AA866414 AA866444	k c.y	dioxygenase Solute carrier family 4, member 1, anion exchange	DEHYDROGENASE [R.norvegicus] ESTs, Weakly similar to A60543 protein kinase [R.norvegicus] 4-hydroxyphenylpyruvic acid dioxygenase Solute carrier family 4, member 1, anion exchange protein 1 (kidney

TAPUE 1: S	中国中国10年				AMY DOCK OF NO. 44921-5039X
Scorianco. D Kor	1,200	GonBant: Acci Ref. Seq ID	Mocol:	Dana Mama	Unicae Cireta IIIb
D KOE	ldeatiller.	Ken sed in 14.1	GOOD IF	Cene Name	
					ESTs, Highly similar to FGD1 MOUS
					PUTATIVE RHO/RAC GUANINE NUCLEOTIDE EXCHANGE FACTOR
179	16013	AA866482	S		[M.musculus]
180	26036	AA874849	h		ESTs
181	16059	AA874857 AA874873	r		ESTs .
182	16069	AA014013	<del> </del>		ESTs, Weakly similar to RNA binding
102	21633	A A 974064			protein [H.sapiens]
183 184	16192	AA874951 AA874995	w		IESTs
104	10192	AV4014993	W		ESTs, Highly similar to RET3 BOVIN
			ı		RETINOIC ACID-BINDING PROTEIN
106	40054	A A 075025	ļ.		I, CELLULAR (R.norvegicus)
185	16254	AA875025	De Conos		II, CELLOLAN [N.Horvegicus]
400	40040	44075000	cc,Gener	l	ESTs
186	16312	AA875032	al		
187	20701	AA875097	b		Rat alpha-fibrinogen mRNA, 3' end ESTs, Highly similar to ARF3 HUMA
		İ	1		ADP-RIBOSYLATION FACTOR
				1	
188	16416	AA875098	bb		[R.norvegicus]
					ESTs, Highly similar to
	Į.				RUXE_HUMAN SMALL NUCLEAR
					RIBONUCLEOPROTEIN E
189	16419	AA875102	bb		[M.musculus]
			l,m,	,	
190	15313	AA875126	General		ESTs
•					ESTs, Weakly similar to AF151834 1
191	10936	AA875146	w		CGI-76 protein [H.sapiens]
192	18084	AA875186	h		ESTs
					ESTs, Highly similar to IF39_HUMAN
				ŀ	EUKARYOTIC TRANSLATION
			į .	Į	INITIATION FACTOR 3 SUBUNIT 9
193	15371	AA875205	U		[H.sapiens]
194	15401	AA875257	X,Z		ESTs
				HHs:NADH dehydrogenase	
	Į		1	(ubiquinone) Fe-S protein 7	
		-	1	(20kD) (NADH-coenzyme Q	ESTs, Highly similar to NUKM
195	15410	AA875268	p,s	reductase)	HUMAN, partial CDS [H.sapiens]
196	15420	AA875286	f		ESTs
197	15446	AA875327	S,W		ESTs
				ŀ	
198	7936	AA875495	b,General		ESTs
					ESTs, Highly similar to includes exor
199	17314	AA875509	i,1,m		3 through 12 [M.musculus]
					ESTs, Highly similar to MLES RAT
	1			l	MYOSIN LIGHT CHAIN ALKALI,
					SMOOTH-MUSCLE ISOFORM
200_	24472	AA875523	k	<u> </u>	[R.norvegicus]
201	15587	AA875577	j		ESTs
202	15617	AA875620	General		ESTs
202	15618	AA875620	General		ESTs
			f,cc,Gene		
203	5384	AA891041	ral	jun B proto-oncogene	jun B proto-oncogene
				T	ESTs, Moderately similar to R33729
204	24814	AA891209	f,p		1, partial CDS [H.saplens]
<del> </del>	T	T			ESTs, Weakly similar to AF151373 1
					nucleolin-related protein NRP
		AA891322	d		[R.norvegicus]
205	21930		<del> </del>	<del></del>	ESTs, Highly similar to eIF3 p66
205	21930				
			h		
205 206	21930 17225	AA891553	h		[M.musculus]
			h		[M.musculus] ESTs, Weakly similar to S67314
			h		[M.musculus] ESTs, Weakly similar to S67314 regulatory protein RMS1 - yeast
206	17225	AA891553			[M.musculus] ESTs, Weakly similar to S67314 regulatory protein RMS1 - yeast (Saccharomyces cerevisiae)
206	17225 7522	AA891553 AA891571	j,m		[M.musculus] ESTs, Weakly similar to S67314 regulatory protein RMS1 - yeast (Saccharomyces cerevisiae) [S.cerevisiae]
	17225	AA891553		melanoma antigen, family D,	[M.musculus] ESTs, Weakly similar to S67314 regulatory protein RMS1 - yeast (Saccharomyces cerevisiae)

TADŲĘ 18 S					PANA DOCKER NO. 44924-5999000 Doc. No. 1799997.1
Sequence DNo.	lder((()er	Ginent Acceptance	Model Gode	Come Name	Elli ser Cluster Tille
210	17693	AA891737	j,l,m,n,y,z		ESTs
211	17256	AA891739	General		ESTs, Weakly similar to T22521 hypothetical protein F52H3.5 - Caenorhabditis elegans [C.elegans] ESTs, Moderately similar to FINC RAT
213	18269	AA891769	General		FIBRONECTIN PRECURSOR [R.norvegicus]
214	9905	AA891774	s,bb, D239Gen eral		ESTs
215	17061	AA891812	d		ESTs, Highly similar to alpha-adducin, hypertensive phenotype [R.norvegicus]
216	7050	AA891824	h		Rattus norvegicus clone ZG52 mRNA sequence
217	4463	AA891831	General		ESTs, Weakly similar to PE2R RAT 20 ALPHA-HYDROXYSTEROID DEHYDROGENASE [R.norvegicus]
218	14289	AA891838	i		ESTs, Highly similar to muscle protein 684 [M.musculus]
219	20523	AA891842	r,cc		ESTs
220	17779	AA891914	g,s,z		ESTs, Moderately similar to ACY1_HUMAN AMINOACYLASE-1 [H.sapiens]
221	17438	AA891943	General		ESTs
222	22862	AA891944	Р		ESTs
223	1159	AA891949	e,z		ESTs
224	4473	AA891965_	General		ESTs, Weakly similar to T31496 hypothetical protein Y116A8C.25 - Caenorhabditis elegans [C.elegans] ESTs, Highly similar to chromatin
225	6362	AA892053	f.j.l.m		structural protein homolog Supt5hp [M.musculus]
226	9037	AA892066	у		ESTs ESTs, Weakly similar to proline
227	19469	AA892112	General		dehydrogenase [M.musculus]
228	14595	AA892128	o,t,v		ESTs
229	16527	AA892154	cc		ESTs
230	4482	AA892173	bb		EST .
231	20917	AA892238	h		ESTs ESTs, Weakly similar to PC4221
232	2357	AA892268	d		protein-tyrosine kinase [R.norvegicus]
233	18183	AA892271	h	·	ESTs
234	6523	AA892299	d		ESTs ESTs, Highly similar to RL3 RAT 60S RIBOSOMAL PROTEIN L3
236	13647	AA892367	а		[R.norvegicus] ESTs, Highly similar to AF151893 1
237	3473	AA892378	j.p.s.x.		CGI-135 protein [H.sapiens] ESTs, Moderately similar to AF185570 1 putative N-acetyltransferase
238	17682	AA892382	General	Aldolase B, fructose-	Camello 4 [R.norvegicus]
239	820	AA892395	g,s	biphosphate	Aldolase B, fructose-biphosphate
240	14754	AA892414	u		ESTs
241	17439	AA892446			ESTS ESTS, Moderately similar to UCRY_HUMAN UBIQUINOL- CYTOCHROME C REDUCTASE COMPLEX 6.4 KD PROTEIN
242	16469	AA892462	p		[H.sapiens] Rattus norvegicus mRNA for prostasin
243	13609	AA892468	i,General n,v,Gener		precursor, complete cds Rattus norvegicus mRNA for prostasir
243	13610	AA892468	al	<u> </u>	precursor, complete cds

TABLE 1: E	WIMMARY	A CHANGE	4.5		ANY, Docket No. 44924-500900 Doc. No. 1769397.
man party and					
Segrance, ID No. 2004	lonaliller.	Content Acc	GOOD :	Coro Namo	واللا تواجعات ومجراتان
	, centrees.				ESTs, Highly similar to HISTONE
244	9254	AA892470	n,u		H2A.Z [R.norvegicus]
245	11991	AA892483	5		ESTs
					ESTs, Moderately similar to LYAG
					MOUSE LYSOSOMAL ALPHA-
_ :_			ا.		GLUCOSIDASE PRECURSOR
246	1522	AA892486	<u> </u>		[M.musculus] [ESTs, Moderately similar to S63540
247	11994	AA892507	aa		protein DS 1, 24K [H.sapiens]
248	23888	AA892520	w		ESTs
248	23889	AA892520	h		ESTs
249	8599	AA892522	р		ESTs
250	15154	AA892532	p		R.norvegicus (Wistar) CaBP1 mRNA
					ESTs, Highly similar to multi-
					membrane spanning polyspecific
251	17468	AA892545	r		transporter [M.musculus]
					ESTs, Highly similar to ras-GTPase-
000	44000				activating protein SH3-domain binding
252	11203	AA892554	f,h a.bb.		protein [M.musculus] ESTs, Moderately similar to PTD012
253	18906	AA892561	General		[H.sapiens]
200	10300	M032301	Concidi		R.norvegicus mRNA for nucleolar
254	19327	AA892562	f,j,y,z		protein NAP57
255	18274	AA892572	p		ESTs
256	4512	AA892578	CC		ESTs
		·			ESTs, Highly similar to RL8_HUMAN
					60S RIBOSOMAL PROTEIN L
257	15876	AA892582	w		[R.norvegicus]
258	19085	AA892598	General	<u> </u>	ESTs
258	19086	AA892598	General		ESTs ESTs, Highly similar to H4_HUMAN
050	20065	AA892647			HISTONE H4 [R.norvegicus]
259 260	20088	AA892666	a,n		ESTs
261	23783	AA892773	n		ESTs
	1.0.00	70.0027.0			Rat mitochondrial proton/phosphate
262	17549	AA892776	f;z		symporter mRNA, complete cds
263	13542	AA892798	b		ESTs
				HHs:glyoxylate	ESTs, Weakly similar to SERA RAT D
				reductase/hydroxypyruvate	3-PHOSPHOGLYCERATE
264	22537	AA892799 .	General	reductase	DEHYDROGENASE [R.norvegicus]
				HHs:glyoxylate	ESTs, Weakly similar to SERA RAT D
264	22539	A A B00700	l.,	reductase/hydroxypyruvate	3-PHOSPHOGLYCERATE DEHYDROGENASE [R.norvegicus]
264	22539	AA8927 <u>99</u>	<u>,                                      </u>	HHs:glyoxylate	ESTs, Weakly similar to SERA RAT D
				reductase/hydroxypyruvate	3-PHOSPHOGLYCERATE
264	22538	AA892799	General	reductase	DEHYDROGENASE [R.norvegicus]
		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			ESTs, Weakly similar to S70642
	ł				ubiquitin ligase Nedd4 - rat
265	6951	AA892820	h		[R.norvegicus]
					Rattus norvegicus aiar mRNA for
					androgen-inducible aldehyde
266	23322	AA892821	j,z		reductase, complete cds
					ESTs, Weakly similar to T29904
007	47000				hypothetical protein F59A3.3 -
267	17923	AA892843			Caenorhabditis elegans [C.elegans] ESTs, Weakly similar to procollagen-
268	22871	AA892859	m		lysine 5-dioxygenase [R.norvegicus]
	1-20. ·	- 4002003	p,v,		I and a disciplination from the global
269	9053	AA892861	General		ESTs
	1				ESTs, Weakly similar to EF2 RAT
	1				ELONGATION FACTOR 2
270	16482	AA892940	w		[R.norvegicus]
	l				Rattus norvegicus HP33 mRNA,
271	12020	AA893035	j.y		complete cds
272	3863	AA893060	General		ESTs
273	13332	AA893080	i,General	l	ESTs

TADLE 18: E			X		Aliy. Docket No. 44921-500900 Doc. No. 1700907.
Scopedico ID No. 7	ldeniller	Goneant Acc Rol Seq ID	Model Code		Unigeno Cluster III le
274	21305	AA893082	General		ESTs
275	16591	AA893191	j,z		ESTs
276	17447	AA893192	General		ESTs
277	3876	AA893205	n		ESTs
278	3878	AA893230	General		ESTs, Weakly similar to CALM_HUMAN CALMODULIN [R.norvegicus]
279	20986	AA893242	9	Acyl CoA synthetase, long chain	Acyl CoA synthetase, long chain
			i,z,		ESTs, Moderately similar to
280	16168	AA893280	General		adipophilin [H.sapiens]
281	3886	AA893289	j,m,y		ESTs
282	15209	AA893327	У		ESTs
283	17800	AA893436	CC		ESTs
284 285	17836 9084	AA893626 AA893717	h x		ESTs, Weakly similar to LIS1 MOUSE PLATELET-ACTIVATING FACTOR ACETYLHYDROLASE IB ALPHA SUBUNIT [R.norvegicus]
286	22731	AA893743	d		ESTs
287	12031	AA893860	v	HHs:threonyl-tRNA synthetase	ESTs, Moderately similar to SYTC_HUMAN THREONYL-TRNA SYNTHETASE, CYTOPLASMIC [H.sapiens]
288	17897	AA893905	k		ESTs
289	3447	AA893982	d		ESTs
290	22583	AA894009	ln .		EST
291 292	10540 4569	AA894027 AA894059	x		ESTs, Highly similar to A55748 protein kinase [M.musculus]
293 294	18419 17336	AA894130 AA894297	d		ESTs, Weakly similar to APP2 RAT AMYLOID-LIKE PROTEIN 2 PRECURSOR [R.norvegicus] ESTs
295	19120	AA894318	f.j		ESTs
296	19762	AA899113	i	<del></del>	ESTs
297	18286	AA899219	u		Rat mRNA for beta-tubulin T beta15
298	22051	AA899498	w		ESTs, Weakly similar to T26581 hypothetical protein Y32B12A.3 - Caenorhabditis elegans [C.elegans]
298	22052	AA899498	q		ESTs, Weakly similar to T26581 hypothetical protein Y32B12A.3 - Caenorhabditis elegans [C.elegans]
299	21628	AA899563	aa		ESTs
300	4262	AA899590	i		ESTs
301	4661	AA899709	t,General	receptor activity modifying protein 3	receptor activity modifying protein 3
302	21354	AA899721	q		ESTs Rattus norvegicus epidermal growth factor receptor related protein (Errp)
303	17905	AA899762	General		mRNA, complete cds
304	15231	AA899840	r		ESTs
305	23778	AA899854	c,k,x	topoisomerase (DNA) II alpha	topoisomerase (DNA) II alpha
306	22060	AA899898	b		IESTs
307	9114	AA899951	v,General	<del> </del>	ESTs
308	8988	AA900148	1		ESTs Rattus norvegicus mRNA for
309	11841	AA900247	v		Hsp70/Hsp90 organizing protein ESTs, Highly similar to ALPHA-2-
0.40	1,705		l		MACROGLOBULIN PRECURSOR
310	4725	AA900290	Coccent	<del></del>	[R.norvegicus]
311	4747	AA900465	General	ļ. <del>-</del>	ESTs ESTs
312	20988	AA900562	0	<del> </del>	ESTs, Weakly similar to nuclear RNA
313	3822	AA900863	b.g. General	<u> </u>	helicase [R.norvegicus]

VARUE 1:	SUMMARY :				. : (Ally): Docates No. 44924-5009000
7.					Des. No. 1793997.1
Scorcinco			Mecol -		
D Ko	- (ලෝගිලා 2	Cot Scold	Good "	Gene Name	Unigene Circler Tille
					ESTs, Weakly similar to T20702
	N.				hypothetical protein F10C2.6 -
315	12420	AA901017	b		Caenorhabditis elegans [C.elegans]
316	4849	AA901155	s		Rattus norvegicus CDK105 mRNA
					ESTs, Highly similar to IF2B_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 2 BETA
317	3959	AA901338_	General		SUBUNIT [H.sapiens]
240	22846	AA923982	a,d		ESTs, Highly similar to ATP-specific succinyl-CoA synthetase beta subunit [M.musculus]
318 319	4895	AA923999	k		ESTs
313	4033	AA323333	cc.		2010
320	21546	AA924188	General		ESTs
321	24192	AA924210	n,General		ESTs
322	4933	AA924301	g,I,Gener al		EST
J22	4333	777324301			ESTs, Moderately similar to
					NO56 HUMAN NUCLEOLAR
323	4944	AA924405	I,General		PROTEIN NOP56 [H.sapiens]
324	4948	AA924428	r		ESTs
					ESTs, Weakly similar to NPT2 RAT RENAL SODIUM-DEPENDENT
	İ				PHOSPHATE TRANSPORT
325	4949	AA924432	General		PROTEIN 2 [R.norvegicus]
326	18891	AA924598	е	·	ESTs
				HHs:glyoxylate reductase/hydroxypyruvate	ESTs, Weakly similar to SERA RAT D- 3-PHOSPHOGLYCERATE
327	22540	AA924630	v,General	reductase	DEHYDROGENASE [R.norvegicus]
				HHs:glyoxylate reductase/hydroxypyruvate	ESTs, Weakly similar to SERA RAT D- 3-PHOSPHOGLYCERATE
327	22541	AA924630	General	reductase	DEHYDROGENASE [R.norvegicus]
328	14759	AA924766	k		ESTs
329	23123	AA924794	X		ESTs ESTs
330 331	4067 2888	AA924813 AA924902	g.p r,General		ESTS
331	2000	AA924902	1,General		ESTs, Highly similar to sec7 domain
332	18130	AA924964	d		family member [H.sapiens]
333	23141	AA925019	٢		ESTs
					ESTs, Weakly similar to MCT7 RAT MAST CELL PROTEASE 7
334	23195	AA925026	General		PRECURSOR [R.norvegicus]
335	21458	AA925049	f,aa, General		ESTs
333	21430	701323043	Contai		ESTs, Moderately similar to S20710
					hypothetical protein, 16K - mouse
336	5073	AA925061	m		[M.musculus]
337	14790	AA925087	o.General		ESTs
	1,,,,,,				EST, Highly similar to T50621
					hypothetical protein DKFZp762O076.1
338	5089	AA925126	9		[H.sapiens] ESTs, Moderately similar to BHMT
					RAT BETAINE-HOMOCYSTEINE S-
339	23261	AA925145	k,General		METHYLTRANSFERASE [R.norvegicus]
333	23201	LV/353142	N, General		ESTs, Moderately similar to
240	17262	A A 025452			neurodegeneration-associated protein
340	17363 23448	AA925150	a	<del> </del>	1 [R.norvegicus] ESTs
341 342	23159	AA925167 AA925318	e	I-kappa-B-beta	I-kappa-B-beta
343	21500	AA925353	k		ESTs
344	22479	AA925418	t		ESTs
345	21151	AA925539	b		ESTs

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TADUE 1: S	UMMARY .			\$3	AAAA, Dockel No. 44921-61939.VG Doc. No. 1793397.6
	Y .			ندرن ا	- Bos No 1//stos//
Seguine. ID Ko:	leniller	Genbent Acc/ Ref. Seq ID	(Node) Gede	Gene Keine	Civeter Title
346	16944	AA925541	f	heterogeneous nuclear ribonucleoprotein L	heterogeneous nuclear ribonucleoprotein L
346	16945	AA925541	t	heterogeneous nuclear ribonucleoprotein L	heterogeneous nuclear ribonucleoprotein L
				HHs:succinate dehydrogenase complex,	ESTs, Highly similar to DHSA_HUMAN SUCCINATE
347	17514	AA925554	i.General	subunit A, flavoprotein (Fp)	DEHYDROGENASE [H.sapiens] ESTs
348 349	5183 23189	AA925662 AA925844	r,General		ESTS
349					ESTs, Highly similar to IMB3_HUMAN IMPORTIN BETA-3 SUBUNIT
350	23190	AA925863	aa		[H.sapiens]
351	5252	AA926051	General		EST
352	22967	AA926080	h,cc		ESTs ESTs
353	17157	AA926129	Ь		
354	13411	AA926196	u,General	putative potassium channel	ESTs
355	5295	AA926247	General	TWIK	putative potassium channel TWIK ESTs, Moderately similar to NEURONAL PROTEIN 3.1
356	22928	AA926262	General		[M.musculus] ESTs, Moderately similar to T13963
357	8948	AA926316	r		formin related protein, lymphocyte specific - mouse [M.musculus]
358	21798	AA926365	88		ESTs, Moderately similar to AF151827 1 CGI-69 protein [H.sapiens]
359	9942	AA942697	s		ESTs ESTs, Highly similar to HN1
360	6039	AA942716	x,General		[M.musculus]
361	11174	AA942745	g,o,w		ESTs
362 363	23005	AA942770 AA942774	g General		ESTs ESTs
303	21310	PV245114	General		ESTs, Weakly similar to T26686 hypothetical protein Y38F1A.6 -
364	6615	AA942889	v		Caenorhabditis elegans [C.elegans] ESTs, Highly similar to KFMS RAT MACROPHAGE COLONY STIMULATING FACTOR I RECEPTOR PRECURSOR
365	6691	AA943028	C		[R.norvegicus] ESTs, Weakly similar to p68 RNA
366	22142	AA943066	P 		helicase [R.norvegicus] ESTs, Weakly similar to T00084 hypothetical protein KIAA0512
367	21993	AA943149	v,General		[H.sapiens] ESTs, Weakly similar to T08666
368	9061	AA943508	General		hypothetical protein DKFZp547N0510.1 [H.sapiens] ESTs, Weakly similar to VIL1 MOUSE
369	24390	AA943531	b.j,n,y		VILLIN [M.musculus] Rattus norvegicus mRNA for class I
370	13976	AA943532	f,s,x cc,		beta-tubulin, complete cds Rattus norvegicus zyxin mRNA, partial
371	22248	AA943537	General		cds ESTs, Highly similar to T2DA_HUMAN TRANSCRIPTION INITIATION FACTOR TFIID 20/15 KDA
372	22257	AA943558	m u,cc,		SUBUNITS [H.sapiens]
373 374	12673 13641	AA943773 AA944154	General		ESTs ESTs
375	2658	AA944155	10	<del> </del>	ESTs
376	12770	AA944161	d		ESTs

TABLE 1: 'S		\$ 78 (1735 <del>4</del> ) 5 (175)			MIXITY Docket No. 4/1921-E0111100 Doc. No. 17191117.1
i ionoipeé ii e du al	lioniiler:	ConBonk Acci Ref. Seq ID:	Modal • Cods	Cono Namo	Chirecus Chara
					ESTS, Highly similar to CKS2 MOUSE CYCLIN-DEPENDENT KINASES REGULATORY SUBUNIT 2
377	20903	AA944180	i,x		[M.musculus]
378	13507	AA944244	v		ESTs
379	15596	AA944353	General		ESTs
380	22681	AA944413	i,v,cc, General		ESTs
381	6711	AA944439	General		ESTs, Highly similar to hypothetical protein [M.musculus] ESTs, Weakly similar to FIBA RAT
382	14763	AA944481	i,q, General		FIBRINOGEN ALPHA/ALPHA-E CHAIN PRECURSOR [R.norvegicus]
383	22466	AA944605	h		ESTs
					ESTs, Weakly similar to A44437 regenerating liver inhibitory factor
384	12301	AA944727	Ь	HHs:polymerase (RNA) II	RL/IF-1 - rat [R.norvegicus] ESTs, Highly similar to RNA
385	7023	AA944792	d,m,aa		polymerase II 23kD subunit [H.sapiens]
386	22536	AA944803	bb	(2380)	ESTs
387	22501	AA944811	g,i	<del></del>	ESTs
388	23967	AA944831	S		ESTs
389	26084	AA944922	i		
390	11974	AA944958	General		ESTs
391	22547	AA944970	aa		ESTs
392	22554	AA945076	z,General		ESTs ESTs
393	14352	AA945181	General General		R.norvegicus alpha-1-macroglobulin mRNA, complete cds
395 396	22050	AA945569 AA945604	i.aa		ESTs
397	19731	AA945615	d.o		ESTs
398	22612	AA945624	a,General		ESTs, Weakly similar to DHQU RAT NAD(P)H DEHYDROGENASE [R.norvegicus]
399	22618	AA945656	a,General	-	ESTs .
400	11871	AA945679	v		ESTs
401	22656	AA945818	General		ESTs
402	6720	AA945828	p		ESTs
403	22351	AA945867	m		ESTs
404	22665	AA945877	ſ		ESTs
405	24243	AA945950	b		ESTs
406	22689 22692	AA945962 AA945986	General d		ESTs ESTs
408	22696	AA945996	c.General		ESTs
408	22697	AA945996	c,o		ESTs
409	22658	AA945998	w		ESTs
				HMm:RIKEN cDNA	ESTs, Highly similar to COXG MOUSE CYTOCHROME C OXIDASE
410	20832	AA946040	Gonomi	2010000G05 gene	POLYPEPTIDE VIB [M.musculus]  ESTs
411	18337	AA946046	General		Rattus norvegicus laminin-5 alpha 3
412	825	AA946108	General e,cc,		chain mRNA, complete cds
413	8639	AA946221	General		ESTs
414	23237	AA946224	1		ESTs
415	19387	AA946250 AA946275	o,aa t		ESTs ESTs, Highly similar to AR21_HUMAN ARP2/3 COMPLEX 21 KD SUBUNIT [H.sapiens]
417	6351	AA946344	d	PCTAIRE-1 protein kinase, alternatively spliced	PCTAIRE-1 protein kinase, alternatively spliced
					ESTs, Highly similar to autoantigen
418	22057	AA946348	8		[H.sapiens]
419	22069	AA946349	aa	L	ESTs

TABLE 1: 8					Aily, Docker No. 41921-5039W. Dock No. 1793597.
Sequince ID No.	ldentilier	Geneankace Rea Segio 4	Model Godo	Gene Name	Unigene Greater Alle
420	13962	AA946351	General		ESTs
					ESTs, Highly similar to Ring3
421	18280	AA946361	9		[M.musculus]
422	18944	AA946391	V		ESTs
424	21410	AA946408			ESTs, Moderately similar to p18 component of aminoacyl-tRNA synthetase complex [H.sapiens]
425	643	AA946439	o.y		Rat H4 gene for somatic histone H4
					ESTs, Highly similar to NPD1 MOUSE NEURAL PROLIFERATION DIFFERENTIATION AND CONTROL PROTEIN-1 PRECURSOR
426	20736	AA946443	X		[M.musculus] ESTs
427	21878	AA946448	ļr		ESTs, Highly similar to AF151863 1
428	21947	AA946451	bb		CGI-105 protein [H.sapiens]
428	17499	AA946467	General		ESTs
723	11799	174070101	30.16.61	<del>                                     </del>	Rat mRNA for alpha-2u globulin-
430	1809	AA946503	x,General		related protein
431	23360	AA955104	ſ		ESTs
432	23471	AA955162	General		ESTs
433	9452	AA955206	b,General	Ć.	ESTs
434	23512	AA955282	General		ESTs
435	22596	AA955298	General	l	ESTs
436	23283	AA955391	h	lipoprotein-binding protein	lipoprotein-binding protein
437	23546	AA955393	General		ESTs ESTs, Weakly similar to SX10 RAT
438 439	12404 23626	AA955408 AA955540	b aa		TRANSCRIPTION FACTOR SOX-10 [R.norvegicus] ESTs
441	17540	AA955914	bb		EST, EST, Moderately similar to FBRL MOUSE FIBRILLARIN [M.musculus], ESTs, Highly similar to FBRL MOUSE FIBRILLARIN [M.musculus]
442	24277	AA955962	General		ESTs .
443	19939	AA955980	General		ESTs, Moderately similar to pescadillo [H.sapiens] ESTs, Weakly similar to AF139894 1
444	24000	AA956005	i		RNA-binding protein alpha-CP1 [M.musculus]
445	11050	AA956164	s,v		ESTs, Weakly similar to TCPA RAT T COMPLEX PROTEIN 1, ALPHA SUBUNIT [R.norvegicus]
					EST.
446	498	AA956278	a,General		ESTs
447	23409	AA956294	9	· · · · · · · · · · · · · · · · · · ·	ESTs ESTs
449 450	23773	AA956476 AA956530	f,x d		ESTS, Highly similar to ET putative translation product [M.musculus]
451	23800	AA956534	aa		ESTs, Weakly similar to RNG1_HUMAN RING1 PROTEIN [H.sapiens]
452	23834	AA956659	cc, General		EST
			l		ESTs, Moderately similar to C8
453	16425	AA956688	f,x	ļ	[M.musculus]
454	23847	AA956723	8		EST Lighty significants Add 2 protoin
455	23852	AA956746	j,l,m,z		ESTs, Highly similar to Mi-2 protein [H.sapiens] ESTs, Highly similar to p162 protein
456	5989	AA956907	g,s		[M.musculus]  ESTs, Highly similar to p162 protein
456	5990	AA956907	General		[M.musculus]

TADLE1: S					(Ally, Dockel No. 44221-5059WC
Seguence ID No.4 : * :	AdamWar.	Genbent Accil Rol Seq D	Modal Codo	100	Willyene Cluster Ville
					ESTs, Weakly similar to AF187065 1 p75NTR-associated cell death
457	23957	AA957123	u,General		executor [R.norvegicus] ESTs, Highly similar to hypothetical
458	22357	AA957264	General g,i,m,p,v,		protein [H.sapiens]
			cc,		507-
459 460	23314 23995	AA957270 AA957292	General a.b	<u></u>	ESTs
460	23995	AA937292	[a,b]	l	ESTs, Moderately similar to
461	2702	AA957307	General	HHs:seryl-tRNA synthetase	SYS_HUMAN SERYL-TRNA SYNTHETASE [H.sapiens]
				·	ESTs, Highly similar to HIGH AFFINITY IMMUNOGLOBULIN EPSILON RECEPTOR GAMMA- SUBUNIT PRECURSOR
462	24040	AA957422	<u>c</u>		[R.norvegicus] [ESTs, Highly similar to P3 MOUSE P3
463	12478	AA957554	m		PROTEIN [M.musculus]
464	21306	AA957811	v		ESTs
465	24183	AA957889	t		ESTs
466	24178	AA957905	d		ESTs Highly similar to epsilon-COP
467	17034_	AA963071	е		[M.musculus]  ESTs, Weakly similar to AF187065 1
468	24053	AA963092	General		p75NTR-associated cell death executor [R.norvegicus]
469	2767	AA963201	0		ESTs
470	2022	AA963259	9		ESTs
471	2126	AA963488	d		ESTs
472	24246	AA963703	b		ESTs, Highly similar to cell cycle protein p38-2G4 homolog [H.sapiens]
473	2195	AA963746	General		ESTs ESTs
474 475	19370 2282	AA963797 AA964147	8		ESTs
476	2284	AA964152	x		EST
478	2350	AA964368	g,General		ESTs, Highly similar to TGT_HUMAN QUEUINE TRNA- RIBOSYLTRANSFERASE (H.sapiens)
470	40000				ESTs, Highly similar to ATRTC actin
479 480	18830 2392	AA964496 AA964541	aa b		beta - rat [R.norvegicus] EST
					ESTs, Highly similar to U3 snoRNP
481 482	2395	AA964554 AA964589	General i,aa		associated 55 kDa protein [H.sapiens] EST
483	19145	AA964613	t.,00	<del></del>	ESTs
484	2424	AA964617	g		ESTs
485	3107	AA964687	General		ESTs
486	2457	AA964752	q.t		EST ESTs, Highly similar to DRIM protein
487	6778	AA964763	b		[H.sapiens]  ESTs, Weakly similar to T23337
489	2468	AA964807	,		hypothetical protein K05C4.2 - Caenorhabditis elegans [C.elegans]
409	2400	AX304007	<u>'</u>	Glutamate-cysteine ligase (gamma-glutamylcysteine	Glutamate-cysteine ligase (gamma- glutamylcysteine synthetase),
490	2469	AA964814	lw	synthetase), regulatory	regulatory
491	12561	AA964815	General		ESTs
492	2326	AA964892	aa	,	ESTs, Highly similar to PROCOLLAGEN ALPHA 1(IV) CHAIN PRECURSOR [M.musculus]
493	21339	AA964962	General		ESTs, Highly similar to ABC1 MOUSE ATP-BINDING CASSETTE, SUB- FAMILY A, MEMBER 1 [M.musculus]
494	21399	AA964988	General		ESTs
495	12569	AA965023	g	<del> </del>	ESTs

TABLE 1: S	UMMARY				Aiv. Doctoi No. 44221-5009W
Scoronco	1. The 1884 of 1884 of 1884 of 1884 of 1884 of 1884 of 1884 of 1884 of 1884 of 1884 of 1884 of 1884 of 1884 of	Continuit (Acc)	Model		Dos. No. 1799897
D No.	lebriller:	Rof. Seq ID	Godo 👯	Como Nation 1/2	Uniterno Ovetor Tillo
496	2583	AA965166	bb		ESTs, Moderately similar to inorganic pyrophosphatase [H.sapiens]
497	15885	AA965207	r		ESTs, Highly similar to KIAA0958 protein [H.sapiens]
			b,l,m,u,		
499	2905	AA996727	General		ESTs, Moderately similar to S27267
500	2915 2920	AA996782	u,bbd		lamin A - rat [R.norvegicus] ESTs
501	2920	AA996813	aa,Gener		12318
502	19525	AA996856	al		EST
503	2984	AA997015	C		ESTs
504 505	2986 3145	AA997028 AA997237	General General		ESTs ESTs
506	19249	AA997342	m		ESTS
-	10240	701007042			ESTs, Weakly similar to nitrilase
507	16883	AA997345	General		homolog 1 [M.musculus]
508	12598	AA997362	s		ESTs, Moderately similar to LONN_HUMAN MITOCHONDRIAL LON PROTEASE HOMOLOG PRECURSOR [H.sapiens]
	12030	74337002	J		ESTs, Weakly similar to LIS1 MOUSI PLATELET-ACTIVATING FACTOR ACETYLHYDROLASE IB ALPHA
509	3470	AA997374	Р	/	SUBUNIT [R.norvegicus]
510	3180	AA997425	t		ESTs
511	3245	AA997608	General		ESTs, Weakly similar to PAI2 RAT PLASMINOGEN ACTIVATOR INHIBITOR-2, TYPE A [R.norvegicus ESTs, Moderately similar to T09071
512	3020	AA997656	t		SH3 domains-containing protein POSH - mouse [M.musculus] ESTs, Moderately similar to T30249
513	3269	AA997800	x,aa		cell proliferation antigen Ki-67 - mous
514	3288	AA997877	ſ		ESTs
515	23992	AA998164	k,x	Cyclin B1	Cyclin B1 ESTs, Moderately similar to
516	17470	AA998264	b		FLRE_HUMAN FLAVIN REDUCTAS [H.sapiens]
310	11410	AA330204			ESTs, Weakly similar to BCL3 HUMAN B-CELL LYMPHOMA
517	3773	AA998356	General		3-ENCODED PROTEIN [H.sapiens]
518	19623	AA998422	General		EST
519	3572	AA998516	x		ESTs, Highly similar to CGA2 MOUS CYCLIN A2 [M.musculus]
520	2782	AA998565	C		ESTs, Moderately similar to CYCLIN DEPENDENT KINASE INHIBITOR 1 [M.musculus]
E94	20110	A A DOGE 7.0	i,r,w,		
521 522	26119 22737	AA998576 AA998660	General aa		ESTs .
JEE	22131	74730000	ua		
523	3696	AA999030	e k,x,		ESTs, Moderately similar to AF1329 1 CGI-32 protein [H.sapiens]
524	3079	AA999169	General	Signal transducer and	ESTs Signal transducer and activator of
525	3081	AA999171	e,p,r	activator of transcription 1	transcription 1 ESTs, Highly similar to
F26	2082	A A 000 4 7 2	Gorani	HHs:guanine monphosphate	GUAA_HUMAN GMP SYNTHASE
526 527	3082 17337	AA999172 AB000717	General k	synthetase	[H.sapiens] ESTs
528	1535	AB000717	a	Phoshpolipase D gene 1	Phoshpolipase D gene 1
529	1382	AB002406	k	RuvB-like protein 1	Ruv8-like protein 1
530	20184	AB003753	d		

WALCES US	SUMMARY :		4. 64. 64.	N. Carlotte	5 Ally, Docket No. 44921-5039XX
					Doc, No. 1793397.
Sections of the section of the secti	w Marana	Condent Ace	Model Carlo	Cene Namo.	unicas Creter Tilo
DINON W	" linentiments	Kelb Ced III. 4970	@@@@ <u>.</u> :_	eema wama;	Rattus norvegicus mRNA for
					carboxylesterase precursor, complete
531	4312	AB010635	c,i,j,k,y,z	•	cds
		7.5010555	Ungility i=	HMm:DNA methyltransferase	ESTs, Highly similar to JE0378 DNA
532	21666	AB012214	k	(cytosine-5) 1	[R.norvegicus]
					Rattus norvegicus mRNA for G prote
533	15772	AB015645	g		coupled receptor, complete cds
					Rattus norvegicus MAP-kinase
		l			phosphatase (cpg21) mRNA,
534	1183	AF013144	h		complete cds Rattus norvegicus NAC-1 protein
: 25	1582	AF015911	h,z	\	(NAC-1) mRNA, complete cds
535	1302	AF013911	11,2		ESTs, Moderately similar to MY16
	ľ				MOUSE MYELOID
					DIFFERENTIATION PRIMARY
					RESPONSE PROTEIN MYD116
					[M.musculus],Rattus norvegicus
			u,cc,		progression elevated gene 3 protein
536	11483	AF020618	General		mRNA, complete cds
					Rattus norvegicus MHC class lb M4
					(RT1.M4) pseudogene, complete
537	20295	AF024712	aa		sequence Rattus norvegicus chemokine CX3C
538	19077	AF030358	y,z		mRNA, complete cds
539	23044	AF030338	General	hyaluronidase 2	hyaluronidase 2
540	25178	AF035955	d	.,,	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Rattus norvegicus kidney injury
			x,bb,		molecule-1 (KIM-1) mRNA, complete
541	1564	AF035963	General		cds
					Rattus norvegicus NonO/p54nrb
542	8426	AF036335	f		homolog mRNA, partial cds
					Rattus norvegicus homocysteine respondent protein HCYP2 mRNA,
F42	24047	AE036E37	k	·	complete cds
543	21817	AF036537	<u> </u>	Solute carrier family 1 A1	Solute carrier family 1 A1 (brain
544	21145	AF03857.1	General	(brain glutamate transporter)	glutamate transporter)
				putative peroxisomal 2,4-	putative peroxisomal 2,4-dienoyl-CoA
545	22602	AF044574	General	dienoyl-CoA reductase	reductase
				UDP-glucose:ceramide	UDP-glucose:ceramide
546	13464	AF047707	h	glycosyltransferase	glycosyltransferase
C 4 7	24024	AF052695	X	cell cycle protein p55CDC	cell cycle protein p55CDC
04/					Rattus norvegicus trp1 beta variant
···		AF004000	L	tennalant ranantas mestala 1	
···	12259	AF061266	h	transient receptor protein 1	mRNA, complete cds
548	12259			transient receptor protein 1	mRNA, complete cds Rattus norvegicus kidney-specific
548		AF061266 AF062389	h y,z	transient receptor protein 1	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds
548	12259			transient receptor protein 1	mRNA, complete cds Rattus norvegicus kidney-specific
548	12259				mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds
548	12259 4589	AF062389	y.z	nucleosome assembly	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate
548 549 550	12259 4589 16007	AF062389 AF062594	y,z t	nucleosome assembly	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase
548 549 550	12259 4589	AF062389	y.z	nucleosome assembly	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds
548 549 550	12259 4589 16007	AF062389 AF062594 AF062741	y,z t	nucleosome assembly	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds Rattus norvegicus bithoraxoid-like
548 549 550 551	12259 4589 16007 15761	AF062389 AF062594 AF062741 AF073839	y,z t u	nucleosome assembly protein 1-like 1	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds Rattus norvegicus bithoraxoid-like protein mRNA, complete cds
548 549 550 551	12259 4589 16007	AF062389 AF062594 AF062741	y,z t	nucleosome assembly	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds Rattus norvegicus bithoraxoid-like protein mRNA, complete cds RT1 class lb gene
548 549 550 551	12259 4589 16007 15761	AF062389 AF062594 AF062741 AF073839	y,z t u	nucleosome assembly protein 1-like 1	mRNA. complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds Rattus norvegicus bithoraxoid-like protein mRNA, complete cds RT1 class lb gene Rattus norvegicus serine/threonine
548 549 550 551 552 553	12259 4589 16007 15761 17426 18615	AF062389  AF062594  AF062741  AF073839  AF074608	y,z t u	nucleosome assembly protein 1-like 1	mRNA. complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds Rattus norvegicus bithoraxoid-like protein mRNA, complete cds RT1 class lb gene Rattus norvegicus serine/threonine
548 549 550 551 552 553	12259 4589 16007 15761	AF062389 AF062594 AF062741 AF073839	y,z t u	nucleosome assembly protein 1-like 1	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds Rattus norvegicus bithoraxoid-like protein mRNA, complete cds RT1 class lb gene Rattus norvegicus serine/threonine protein kinase TAO1 mRNA, complete
547 548 549 550 551 552 553 554 555	12259 4589 16007 15761 17426 18615	AF062389  AF062594  AF062741  AF073839  AF074608	y,z t u	nucleosome assembly protein 1-like 1	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds Rattus norvegicus bithoraxoid-like protein mRNA, complete cds RT1 class lb gene Rattus norvegicus serine/threonine protein kinase TAO1 mRNA, complet cds Rattus norvegicus 190 kDa ankyrin isoform mRNA, complete cds
548 549 550 551 552 553	12259 4589 16007 15761 17426 18615	AF062389  AF062594  AF062741  AF073839  AF074608  AF084205	y.z t u p	nucleosome assembly protein 1-like 1	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds Rattus norvegicus bithoraxoid-like protein mRNA, complete cds RT1 class lb gene Rattus norvegicus serine/threonine protein kinase TAO1 mRNA, complet cds Rattus norvegicus 190 kDa ankyrin isoform mRNA, complete cds ESTs, Highly similar to A49013 tumo
548 549 550 551 552 553	12259 4589 16007 15761 17426 18615	AF062389  AF062594  AF062741  AF073839  AF074608  AF084205	y.z t u p	nucleosome assembly protein 1-like 1	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds Rattus norvegicus bithoraxoid-like protein mRNA, complete cds RT1 class lb gene Rattus norvegicus serine/threonine protein kinase TAO1 mRNA, complet cds Rattus norvegicus 190 kDa ankyrin isoform mRNA, complete cds ESTs, Highly similar to A49013 tumo cell suppression protein HTS1
548 549 550 551 552 553 554 555	12259 4589 16007 15761 17426 18615 15797 12932	AF062389  AF062594  AF062741  AF073839  AF074608  AF084205  AF102552	y,z t u p s	nucleosome assembly protein 1-like 1	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds Rattus norvegicus bithoraxoid-like protein mRNA, complete cds RT1 class lb gene Rattus norvegicus serine/threonine protein kinase TAO1 mRNA, complet cds Rattus norvegicus 190 kDa ankyrin isoform mRNA, complete cds ESTs, Highly similar to A49013 tumo cell suppression protein HTS1 [H.sapiens]
548 549 550 551 552 553 554 555	12259 4589 16007 15761 17426 18615 15797	AF062389  AF062594  AF062741  AF073839  AF074608  AF084205  AF102552	y,z t u p s	nucleosome assembly protein 1-like 1	mRNA, complete cds Rattus norvegicus kidney-specific protein (KS) mRNA, complete cds Rattus norvegicus nucleosome assembly protein mRNA, complete cds Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme 2 mRNA, complete cds Rattus norvegicus bithoraxoid-like protein mRNA, complete cds RT1 class lb gene Rattus norvegicus serine/threonine protein kinase TAO1 mRNA, complet cds Rattus norvegicus 190 kDa ankyrin isoform mRNA, complete cds ESTs, Highly similar to A49013 tumo cell suppression protein HTS1

Table 1: 8		1.00	N. State Inc.	S. S.	(Atty: Docket No. 44921-61191Wo
Scovenco <sub>2</sub>	9.00	Consider According to According	Modal,		idea, diller
ID No. 4. F.	ldentifer .	Roll Sog ID: 📆	COOD:	Concidence !	Unigene Giveter Tille
					ESTS,ESTS, Highly similar to HS9B RAT HEAT SHOCK PROTEIN HSP
560	15848	AI007820	n,v		90-BETA [R.norvegicus]
561	10108	A1007857	f	Hrs	Hrs
562	6804	AI007877	General		ESTs
563	20099	AI007893	f,u		ESTs
					ESTs, Weakly similar to T18778
			١.		hypothetical protein B0513.2b -
564	11368	A1007948	٥		Caenorhabditis elegans [C.elegans]
					ESTS, ESTS, Highly similar to HS9B RAT HEAT SHOCK PROTEIN HSP
					90-BETA [R.norvegicus]
565	15849	A1008074	h		90-BETA [K.Horvegicus]
	1				ESTs, Moderately similar to AF151841
			General		1 CGI-83 protein [H.sapiens]
566	3121	A1008160	General		ESTs, Highly similar to Chain G, G
	1				Protein Heterotrimer Gi alpha 1 Beta 1
	l				Gamma 2 With Gdp Bound
£67	16646	A1009400		· .	[R.norvegicus]
567	10040	AI008190			ESTs, Weakly similar to G2/MITOTIC-
568	12683	A1008203	x		SPECIFIC CYCLIN B1 [R.norvegicus]
300	12003	A1008203	^		ESTs, Moderately similar to PIM1 RAT
					PROTO-ONCOGENE
					SERINE/THREONINE-PROTEIN
569	22018	A1008309	ь	•	KINASE PIM-1 [R.norvegicus]
303	22010	741000000	-		ESTs, Highly similar to
	l				6PGD_HUMAN 6-
	ŀ				PHOSPHOGLUCONATE
	ļ				DEHYDROGENASE,
570	23917	AI008441	n		DECARBOXYLATIN [H.sapiens]
571	22599	AI008458	General		ESTs
572	22698	A1008578	p,General		ESTs
573	14405	AI008579	r,x		ESTs
					ESTs, Moderately similar to JH0446
574	4086	AI008629	X		75K autoantigen [H.sapiens]
			l.v.	·	ESTs, Weakly similar to heat shock
575	3808	A1008643	General		protein hsp40-3 [M.musculus]
					ESTs, Weakly similar to T29897
			<b>.</b>		hypothetical protein F38A5.1 - Caenorhabditis elegans [C.elegans]
576	3931	A1008697	-	Dipeptidył peptidase 4	Dipeptidyl peptidase 4
577	7785	A1008758	aa	Dipepudyr pepudase 4	ESTs. Weakly similar to
	İ				LONN HUMAN MITOCHONDRIAL
					LON PROTEASE HOMOLOG
578	16701	AI008838	0		PRECURSOR [H.sapiens]
370	10701	7.1000000	<del>-</del>	<del> </del>	ESTs, Weakly similar to CYSR RAT
			į .		CYSTEINE-RICH PROTEIN 1
579	21789	AI008930	k		[R.norvegicus]
580	21895	AI008971	General		ESTs
	T				R.norvegicus mRNA encoding 45kDa
			i,aa,		protein which binds to heymann
581	410	AI008974	General		nephritis antigen gp330
					ESTs, Highly similar to BAG-family
	1		l ·		molecular chaperone regulator-2
582	21632	AI009167	General		[H.sapiens]
583	21596	AI009168	General		ESTs
584	22801	A1009197	General		ESTs
					ESTs, Highly similar to similar to
	1		cc,	1	human DNA-binding protein 5
585	11876	AI009321	General	1	[H.sapiens]
586	2506	A1009341	General		ESTs
587	6382	A1009362	General		ESTs
				1	ESTs, Highly similar to Lmp10
588	14370	A1009427	k	1	proteasome subunit [M.musculus]

VABLE 1: S	UMMARY		ψ <sup>®</sup> .	*	Ally, Doctol No. 44221-5032000 Doc. No. 1733327.
Soquinico ID No.	identiler	GonBenli Age Rei. Soo ID	Model .	Gane Kamo	Unigene Civeter Ville
589	19275	A1009460	×		ESTs, Highly similar to filamin [H.sapiens]
590	4154	AI009467	9		ESTs
591	3464	AI009589	cc		ESTs
		7			ESTs, Highly similar to molybdopterin-
592	3926	A1009592	е		synthase large subunit [M.musculus]
593	19358	A1009675	С		EST ESTs
594	22545	A1009747	cc.		16218
595	15089	AI009752	General		ESTs
596	5458	AI009756	h	ALG-2 interacting protein 1	ALG-2 interacting protein 1
597	6844	AI009770	e,r,cc	reo 2 militaring protein :	ESTs
					ESTs, Highly similar to RS16_HUMAN 40S RIBOSOMAL PROTEIN S1
598	15627	AI009810	aa		[R.norvegicus]
599	22619	A1009825	d		ESTs ESTs
600	7857	A1009898 A1009946	j,l,m,z		ESTs
601 602	13259 21105	AI010067	General		IESTs
502	21105	AIU 10067	General	Testis enhanced gene	2319
603	24627	AI010102	aa	transcript	Testis enhanced gene transcript
	24027	71010102			ESTs, Moderately similar to YA00_HUMAN HYPOTHETICAL PROTEIN CGI-100 PRECURSOR
604	12716	Al010178	General		[H.sapiens]
605	18757	AI010216	aa		ESTs
606	2042	A1040220	aa, General		ESTs, Weakly similar to claudin-7 [R.norvegicus]
606 607	2912 3316	AI010220 AI010237	General		[ESTs
608	15644	AI010257	General		R.norvegicus mRNA for histone H3.3
609	657	AI010262	b		Rattus norvegicus mRNA for inetrieukin-4 receptor (membrane-bound form), complete cds
610	3271	AI010303	b		ESTs
611	11081	AI010407	bb		ESTs, Moderately similar to erythroblast macrophage protein EMP [H.sapiens]
			c,s,t,		
612	16521	AI010470	General	Ceruloplasmin (ferroxidase)	Ceruloplasmin (ferroxidase)
613	6927	Al010542	General a.j.y.		ESTs
614	17524	AI010568	General	Growth hormone receptor	Growth hormone receptor
615	6946	AI010642	n		ESTs, Highly similar to SDP3
616	23509	AI010962	aa		[M.musculus]
617	6044	AI011285	<u>t</u>		ESTs
618	13855	AI011361	o cc		ESTs ESTs
619 621	21779 12534	AI011380 AI011460	cc cc		ESTS
622			e,f		ESTs, Moderately similar to HYA22 [H.sapiens]
522	12629	AI011492	je,r		ESTs, Weakly similar to B Chain B, Solution Structure Of The C-Terminal Negative Regulatory Domain Of P53 In A Complex With Ca2+-Bound
623	735	AI011560	1		S100b(Bb) [R.norvegicus]   ESTs, Moderately similar to LMA5
624	3941	AI011598	General		MOUSE LAMININ ALPHA-5 CHAIN [M.musculus] ESTs, Weakly similar to JE0360
625	17550	AI011607	i.General		gamma-Butyrobetaine hydroxylase [H.sapiens]
	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ESTs, Weakly similar to I(3)S12
626	10636	AI011634_	е		protein [D.melanogaster]
627	3995	AI011678	General		ESTs

TADUE 18. S	MWWXX				ANY Docket No. 4424-5789WG
D No.	lderiffer.	GinBenk Acci Rel Seq ID	Model Gode :	Gono Namo	
628	16112	AI011706	h		ESTs, Weakly similar to SFR5 RAT SPLICING FACTOR, ARGININE/SERINE-RICH 5 [R.norvegicus]
					ESTs, Weakly similar to A35902 Fc
629	13354	AI011757	cc c		gamma [R.norvegicus] IESTs
630	12745	AI011799	u.		ESTs, Highly similar to AF151842 1
631	18684	AI011812	t		CGI-84 protein [H.sapiens]
632	4205	AI011982	b		ESTs
		l		1	ESTs, Moderately similar to R29425 1
633 634	6518 17407	AI012114 AI012145	General General	<del> </del>	[H.sapiens] [ESTs
635	13093	AI012145	r		ESTS, Weakly similar to PPP5 RAT SERINE/THREONINE PROTEIN PHOSPHATASE 5 [R.norvegicus]
636	15395	AI012216	f		ESTs, Moderately similar to Y33K_HUMAN HYPOTHETICAL 33.4 KDA PROTEI [H.sapiens]
637	21796	AI012221	d,General		ESTs, Weakly similar to S70484 RS43 protein - rat (fragment) [R.norvegicus]
638	3981	AI012235	i,General		ESTs
639	6606	AI012308	i,r		ESTs ESTs, Highly similar to NHPX RAT NHP2/RS6 FAMILY PROTEIN
640	3417	AI012337	w		YEL026W HOMOLOG [R.norvegicus]
641	24200	AI012356	b,t, General		ESTs
642	7471	AI012379	cc		ESTs
643	7247	AI012438	9		ESTs
644	7127	AI012464	p,General		ESTs ESTs, Weakly similar to T26998
					hypothetical protein Y48B6A.6 -
645	3304	AI012471	b		Caenorhabditis elegans [C.elegans]
646	2311	AI012485	aa	-but-this - C toformi	ESTs
647	20817	AI012589	g,n,q	glutathione S-transferase, pi	glutathione S-transferase, pi 2
648	3493	AI012590	v.General	-	ESTs
649	8975	AI012613	General		ESTs
					ESTs, Highly similar to unknown
650 651	11335 21409	AI012619 AI012637	Gonomi		[H.sapiens]
652	8015	ÄI012638	General		ESTs, Moderately similar to AF151834 1 CGI-76 protein [H.sapiens]
653	8476	AI012647	w		ESTs, Highly similar to RS20_HUMAN 40S RIBOSOMAL PROTEIN S2 [R.norvegicus]
	-		e,p,		[·····
654	4232	AI012958	General		ESTs
655 656	23128	AI013011	General	lamin	ESTs
656	20086	AI013260	General	lamin	lamin ESTs, Highly similar to GLIA DERIVED NEXIN PRECURSOR
657	11969	AI013273	k		[R.norvegicus]
658	26147	AI013387	aa		CCT-
659	8815	AI013437	р	<u> </u>	Rattus norvegicus Hsp70 binding
660	19722	AI013508	k		protein HspBP mRNA, complete cds
661	6674	AI013568	General		ESTs
662	23145	AI013647	o,t		ESTs
663	15130	AI013676	W		ESTs

VACLE 1: E	1	10			AMy. Docket No. 44921-598900 Doc. No. 1793997.
Sequence : ID No.	Meniller:	Geneant According Real Seque	Mecal :	Conciliano :	Valgane Givener VIIIe
664	7274	AI013715	aa		ESTs, Moderately similar to BMP6 RAT BONE MORPHOGENETIC PROTEIN 6 PRECURSOR (R.norvegicus)
					ESTs, Highly similar to KIAA1102
665	7276 7278	AI013730 AI013738	e y,z,aa	<del></del>	protein [H.sapiens] ESTs
666	1218	AIU 13738	s,x,bb,		ESTs, Highly similar to proteolipid
667	22592	AI013740	General		protein 2 [M.musculus]
668	16584	AI013765	w_	Arrestin, beta 2	Arrestin, beta 2
					ESTs, Highly similar to T27225 ADP- ribosylation factor Y57G11C.13 [similarity] - Caenorhabditis elegans
669	24143	AI013804	j,1		[C.elegans]
670	15928	AI013829	a,General		ESTs
			l	3-hydroxyisobutyrate	
671 672	21950 3260	AI013861 AI013875	<u>                                     </u>	dehydrogenase	3-hydroxyisobutyrate dehydrogenase ESTs
672	3260	A1013875		<b></b>	ESTs. Moderately similar to MSSP
673	2708	AI013882	d,q		[M.musculus]
674	8585	AI013886	i		ESTs
			p,r,t,		ESTs, Weakly similar to CIRP
675	7299	AI013911	General		[R.norvegicus]
					Rat ankyrin binding glycoprotein-1
676	15904	AI013971	General		related mRNA sequence ESTs. Moderately similar to R32184 1
677	12781	AI014023	l <sub>w</sub>		[H.sapiens]
011	12701	A10 14023	W		Rattus norvegicus mRNA for beta-
				. "	carotene 15,15'-dioxygenase,
678	19372	AI014135	aa		complete cds
					ESTs, Highly similar to hypothetical
679	4241	AI014140	w		protein [H.sapiens]
680	15247	AI014169	c,u		Rattus norvegicus clone N27 mRNA
					ESTs, Moderately similar to mitogen- activated protein kinase kinase kinase
681	7315	AI028831	0		6 (H.sapiens)
682	16631	AI028856	General		ESTs
					ESTs, Highly similar to S55054 Sm
683	23297	AI028953	x		protein G [H.sapiens]
684	11326	AI029015	b		ESTs
685	2866	A1029058	n,y		ESTs ESTs
686 687	12812 17602	AI029126 AI029156	General p		ESTs
688	7392	AI029185	aa		EST
	6517	AI029264	d,k,x		ESTs
690	7639	A1029292	b		ESTs
	0074	A1000400	: Canami		ESTs, Highly similar to CB80_HUMAN 80 KDA NUCLEAR CAP BINDING
691 692	3874 12819	AI029428 AI029437	i,General	-	PROTEIN [H.sapiens]
693	7452	AI029466	r	<del></del>	ESTs
694	7493	AI029608	b		ESTs
696	7537	AI029829	o,General		ESTs *
697	2310	AI029969	v		ESTs
698	7585	A1030023	X		ESTs
699	7586	AI030024	b,n		ESTs
700	14492	A1030091	cc		ESTs, Weakly similar to ankyrin
701	10673	AI030134	<u> -</u>		[R.norvegicus]
702	7615	AI030163	O,f	<u></u>	ESTs ESTs
703	2370	AI030179	General		ESTs, Moderately similar to
704	7681	A1030449	n		methyltransferase related protein [M.musculus]

TABLE 1: E	wymary '				(CAN). Docket No. 44924-5939X Doc. No. 1793337
Begroneo.	ldenliker	Gondenk Acci. Rei. Sog ID	Mođaj (800)	Conellence	Lagrana Guster Tilla
705	11559	AI030472	General		ESTs
	,,,,,,,				Rattus norvegicus nucleosome
					assembly protein mRNA, complete
706	7665	A1030668	t,bb		cds
707	24222	AI030704	k		ESTs
708	10740	AI030743	h		EST
709	10742	AI030773	6		EST
			1.	1	ESTs, Moderately similar to
<u> 711                                   </u>	16169	A1030932	General		adipophilin [H.sapiens]
712	19527	AI030991	f		EST
					ESTs, Highly similar to \$X17 MOUS TRANSCRIPTION FACTOR SOX-17
713	22614	Al031004	r		[M.musculus] ESTs, Highly similar to CLPP MOUS
-44					PUTATIVE ATP-DEPENDENT CLP PROTEASE PROTEOLYTIC SUBUNIT, MITOCHONDRIAL PRECURSOR [M.musculus]
714	3167	A1031012	e		ESTs [W.musculus]
715	7858	AI043611 AI043654	a t	<del></del>	IEST IEST
716	10784		d		EST
717	10764	AI043678	<u> </u>		ESTs, Weakly similar to T27134
718	9180	AI043694	aa	-	hypothetical protein Y53C12B.2 - Caenorhabditis elegans [C.elegans]
				HHs:phosphoribosyl	
				pyrophosphate	Rattus norvegicus mRNA for
719	7867	AI043695	aa	amidotransferase	amidophosphoribosyltransferase
720	7584	AI043724	General		ESTs
					ESTs, Highly similar to AF151810 1
721	7895	AI043768	е		CGI-52 protein [H.sapiens]
722	7903	AI043805	General		ESTs
					ESTs, Weakly similar to ELL MOUSI RNA POLYMERASE II ELONGATIO
723	7913	AI043849	cc		FACTOR ELL [M.musculus]
724	3899	AI043904	<u> </u>	ļ	ESTs
725	6766	AI043914	f		ESTs
	i		g,I,m,	ŀ	
726 ·	10818	A1043990	General		ESTs
727	7956	A1044018	<u> </u>		EST
728	5393	AI044170	ρ		EST
729	5398	AI044177	9		EST
730	5425	AI044237	a,d		ESTs, Weakly similar to AF121893 1 sequence-specific single-stranded- DNA-binding protein [R.norvegicus]
					ESTs, Weakly similar to putative peroxisomal 2,4-dienoyl-CoA
731	8692	A1044247	r '		reductase [R.norvegicus]
732	5430	AI044253	li		EST
733	5461	A1044338	g,p, General		ESTs
734	5464	AI044345	1		ESTs
735	3359	AI044347	aa		ESTs
			<del></del>		Rat (clones rLG[08,14,25]) interleuki
737	2695	AI044396	ь		6 signal transducer mRNA sequence
738	5494	AI044425	General		ESTs
740	9882	A1044588	j,m		ESTs
741	5575	AI044688	g		ESTs
742	2348	AI044794	General	T	ESTs
					ESTs, Weakly similar to AF165892 RNA-binding protein SiahBP
743	18205	A1044836	u -		[R.norvegicus]
744	5626	A1044864	ļ <u>.                                      </u>	<del> </del>	ESTs -
745	5630	AI044869	<u>'</u>		ESTs, Moderately similar to AF1518
746	5634	AI044883	General		1 CGI-115 protein [H.sapiens]

vale 4: 6	UMMARY	7		4-1	('Ally: Dockel No. 44221-5339W Doc. No. 1743397
Sequence; ID No.:	Meniller	GmPmi Aco. Roi Seq ID	Model : Godo	Gene Name	Unigene Cheter Itae
					ESTs, Moderately similar to
747	4047	A1044947	l,m		dJ1183I21.1 [H.sapiens]
748	5654	A1044976	w		EST ESTs
749	5684	AI045056	r	<b></b>	ESTs, Highly similar to BGAL MOUS
750	19235	AI045074	General		BETA-GALACTOSIDASE PRECURSOR [M.musculus]
			i,aa.		ESTs, Moderately similar to HEM45
751	5689	AI045075	General		[H.sapiens]
752	5711	AI045151	General		ESTs, Moderately similar to AF1188 1 citrin [H.saplens] ESTs, Weakly similar to TVRTK6
					ribosomal protein S6 kinase
753	19237	AI045153	c		[R.norvegicus]
754	9964	AI045161	f		EST
755	5735	AI045223	f		ESTs
756	5474	A1045477	a,General		ESTs
757	5811	AI045502	d,e		ESTs
758	5819	A1045537	General		ESTs
759	5839	AI045594	<u> </u>		ESTs ESTs, Highly similar to S30034
760	6808	AI045600	s		translocating chain-associating membrane protein [H.sapiens]
761	17755	AI045608	у		ESTs
763	10020	AI045632	a		ESTs
764	5855	AI045669	General		ESTs
765	5881	AI045789	i		ESTs, Weakly similar to T12540 hypothetical protein DKFZp434J214. [H.sapiens] ESTs, Moderately similar to S64732
766	5897	AI045862	General		scaffold attachment factor B [H.sapiens]
767	5900	AI045866	y,z		ESTs
			o,t,		ESTs, Weakly similar to B48013 proline-rich proteoglycan 2 precursor
768	7540 ·	AI045882	General		parotid - rat [R.norvegicus] ESTs
769	5329	AI045970	lp Id		ESTs
770 771	15093 8002	AI058285 AI058304	i		ESTs
772	8017	AI058341	c		EST
.,,					ESTs, Weakly similar to T46465 hypothetical protein
773	6828	A1058359	General		DKFZp434A0530.1 [H.sapiens]
774	8177	Al058603	aa		ESTs
775	3090	AI058730	aa		ESTs
776	10093	A1058746	Casami		ESTs
777	8143	A1058759	General	<del></del>	ESTs
778 779	18659 8163	A1058762 A1058837	aa	· · · · · · · · · · · · · · · · · · ·	ESTs
780	4789	AI058889	General		ESTs
781	8221	AI059061	General		EŜTs
782	10159	AI059147	d	<u> </u>	EST
783	8245	AI059154	ь		ESTs, Weakly similar to unnamed protein product [H.sapiens]
784	8283	AI059290	n		ESTs
			1 _	·	
785	8314	AI059386	g,General	<u> </u>	ESTs
786	10200	A1059444			ESTS ESTS, Weakly similar to EGF RAT PRO-EPIDERMAL GROWTH
787	8347	A1059519	s		FACTOR PRECURSOR [R.norvegicus] Rattus norvegicus transitional
788	18359	AI059675	n		endoplasmic reticulum ATPase mRNA, complete cds

TARLE 1: S			y Car Talk		A117 Doctol No. 44921-5999XC Doc. No. 17193597.
Šegunico D Ko.	ldeniller -	Consent Ace Rol Sogld	Mocol Goco	Gene Name	Unijeno Gwater VIIIo
789	10281	AI059947	b,t		EST
790	8494	A1059968	aa		ESTs
					ESTs, Weakly similar to TNRC MOUSE LYMPHOTOXIN-BETA RECEPTOR PRECURSOR
791	8495	AI059971	General		[M.musculus] ESTs, Moderately similar to KIAA0978
792	8496	AI059974	General		protein [H.saplens] [ESTs, Weakly similar to CGI-142
793	10289	AI060053	i		hypothetical protein [H.sapiens]
794	8548	AI060176	k		ESTs
795	8565	AI060236	t		EST
796	18322	AI060279	i,y,z		ESTs
797	8745	AI069939	r		ESTs
798	8785	AI070067	o		ESTs, Highly similar to rer [M.musculus]
					ESTs, Weakly similar to 2104282A
799	17506	A1070068	cc		Gadd45 gene [R.norvegicus] ESTs, Weakly similar to NUCL RAT
800	9067	A1070087	General		NUCLEOLIN [R.norvegicus] ESTs, Moderately similar to CGI-97
801	3551	Al070122	е		protein [H.sapiens]
902	4967	A1070179	k		ESTs, Moderatety similar to GLMB RAT GLIA MATURATION FACTOR BETA (R.norvegicus)
802	4501	A1070179	<u> </u>	· · · · · · · · · · · · · · · · · · ·	DETA (K.Horvegicus)
803	18	AI070195	General		ESTs, Moderately similar to AF132954 1 CGI-20 protein [H.sapiens]
					ESTs, Moderately similar to ARVC_HUMAN ARMADILLO REPEAT PROTEIN DELETED IN VELO-CARDIO-FACIAL SYNDROME
804	24197	AI070314	General		[H.sapiens]
805	8869	AI070330	r		ESTs
806	8874	AI070336	b,cc		ESTs
807	10417	A1070410	m		ESTs ESTs, Moderately similar to T08664 Toll protein-like receptor
808	8901	AI070419	aa I,p,		DKFZp54710610.1 [H.sapiens]
809	14424	AI070421	General		ESTs ·
810	10434	AI070497	General		ESTs
811	8927	A1070523	٧		ESTs
812	8946	AI070611	q		ESTs
813	8950	AI070621	w		ESTs
814	8972	AI070673	General		ESTs
815	8981	AI070715	bb		EST
816	26184	A1070784	i,i		ESTs, Weakly similar to hypothetical
817	3007	A1070824	w		protein [H.saplens]
818	8999	AI070839	ρ	bone morphogenetic protein	bone morphogenetic protein 1
819	10477	A1070868	e,f	1 (procollagen C-proetinase)	(procollagen C-proetinase)
820	24301	AI070911	k Consent		ESTs
821	8721	A1071024	General	<b></b>	EST
822	9212	AI071098	x		ESTS
823	1831 11005	A1071137	r	<del> </del>	Rat mRNA for cdc25B, complete cds
824 825	9104	AI071173	j,m		ESTs, Highly similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G [M.musculus]
826	9583	AI071185	General		ESTs
827	9644	AI071410	С		ESTs

TADLE 1: E	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				Any, Docket No. 44921-503900 Doc. No. 1793337.
Sequence	ldeniller.	Contracts Aced	Medel)	Cono Remo	Unigeno Giveter Titlo
000	10050	11074400	C1	HHs:serine palmitoyltransferase, long	ESTs, Highly similar to JC5180 sering
828 829	16058	AI071490 AI071509	General f.o	chain base subunit 2	C-palmitoyltransferase [M.musculus] ESTs
029	11057	A107 1509	1,0		ESTs, Weakly similar to SYBSR threonine synthase (EC 4.2.99.2) -
831	5695	AI071566	bb ·		yeast (Saccharomyces cerevisiae) [S.cerevisiae]
832	9671	AI071568	w		EST
000	00000	A1074579	General		ESTs, Moderately similar to NEURONAL PROTEIN 3.1
833	22929	A1071578	General		[M.musculus] ESTs
834	9673	AI071581	General		ESTs
835	9699	AI071646		l	IESTs
837	9799	AI072008	q.y.z	<u> </u>	IESTs
838	9808	AI072050	Gonomi	<del></del>	ESTs
839	22796	AI072213	General		
840	9271	AI072405	w		ESTs ESTs
841	10869	AI072425	<u> </u>		ESTs, Weakly similar to S70484 RS4:
842	21797	AI072439	General		protein - rat (fragment) [R.norvegicus]
843	9306	AI072521	Γ		ESTs
844	9312	AI072550	]		ESTs
845	10893	AI072559	X		EST
846	1501	AI072634	cc,Gener al		Rattus norvegicus cytokeratin-18 mRNA, partial cds
847	6548	AI072658	General		ESTs
848	9363	AI072695	d		ESTs, Highly similar to JE0170 dnaJ heat shock protein MCG18 - mouse (M.musculus)
850	9409	AI072841	n		ESTs, Moderately similar to LMG2 MOUSE LAMININ GAMMA-2 CHAIN PRECURSOR [M.musculus]
851	9410	AI072842	w		ESTs
852	9468	AI073021	General	·	ESTs
853	9518	AI073223	f		EST ESTS, Weakly similar to CAH2 RAT CARBONIC ANHYDRASE II
854	11183	AI100768		HHs:carbonic anhydrase VIII	
855	9190	AI100835	e	THE COLOURS OF THE COLOUR VIII	ESTs
856	2029	AI100842	p		ESTS
857	5687	Al101006	е		ESTs
					Rat metallothionein-2 and metallothionein-1 genes, complete cd
858	15192	Al101099	g.cc		ESTs, Highly similar to ATPK MOUSE ATP SYNTHASE F CHAIN,
859	17399	A1101157	0		MITOCHONDRIAL [M.musculus] ESTs, Weakly similar to S46930
860	9339	AI101160	l,m,o		teg292 protein - mouse [M.musculus] ESTs, Weakly similar to AIF-C1
861	6321	AI101256	General		[R.norvegicus] ESTs, Highly similar to GDIS MOUSE
862	5421	Al101270	С		RHO GDP-DISSOCIATION INHIBITOR 2 [M.musculus] ESTs, Highly similar to ERM_HUMAN
069	11010	A1404202	Conorri		ETS-RELATED PROTEIN ERM
863	11910	AI101323	General		[H.sapiens]
864	23140	AI101608	6 Consent		ESTs
865	4119	AI101901	General		ESTS
866	16324	AI102009	ь		ESTs, Weakly similar to TRBP MOUSE PROTAMINE-1 RNA BINDING PROTEIN [M.musculus]
867	18642	AI102023	0		ESTs, Moderately similar to unknown [H.sapiens]

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Sequence) ID No.	(der/lifer	GonBonk'Accel Rol Sooid	Model (600)	Cono Namo	Migano Gustor Milos
				Drosophila polarity gene	Rattus norvegicus mRNA for beta- carotene 15,15'-dioxygenase,
868	19373	Al102044	a	(frizzled) homologue	complete cds Rattus norvegicus clone ZG52 mRNA
869	7051	AI102055	ħ		sequence ESTs, Weakly similar to AF147718 1
870	6544	AI102064	С		glycine decarboxylase [R.norvegicus]
871	10227	AI102248	w		ESTs
872	23849	AI102318	e,q		ESTs
873	11954	Al102505	g,j,s	HMm:cytochrome c oxidase, subunit VIIIa	Rattus norvegicus liver cytochrome c oxidase subunit VIII (COX-VIII) mRNA, 3' end of cds
874	2125	AI102519	c,k		ESTs, Moderately similar to DAP12 [M.musculus]
					ESTs, Moderately similar to AF161588 1 GABA-A receptor-associated protein
875	5967	Al102520	у		[R.norvegicus] ESTs, Moderately similar to AF161588
075	5050	41400500		·	1 GABA-A receptor-associated protein [R.norvegicus]
875 876	5969 11563	AI102520 AI102560	p,w General		[R.norvegicus]
877	15190	Al102562	b,g,n,p,v		Rat metallothionein-i (mt-1) mma
		7.1102002			EST, Weakly similar to A60716 somatotropin intron-related protein
878	19769	Al102570	bb		RDE.25 - rat [R.norvegicus] ESTs, Highly similar to I49523 Mouse primary response gene B94 mRNA,
879	22487	Al102578	General		3'end - mouse [M.musculus]
880	19011	AI102618	General		ESTS
881	23837	AI102620	q,t		ESTs
882	23538	Al102727	g,General	solute carrier family 20 (phosphate transporter), member 1	solute carrier family 20 (phosphate transporter), member 1
883	17234	AI102741	С	Tissue inhibitor of metalloproteinase 3	Tissue inhibitor of metalloproteinase 3
884	5891	AI102745	k		ESTs
885	6796	AI102753	General		ESTs
886	8837	AI102849	0,p		ESTs ESTs, Weakly similar to phosphoserine aminotransferase
887	15861	AI102868	i		[H.sapiens]
888	3533	AI102877	9		ESTS
889	13222	AI102977	General		ESTs, Highly similar to PCAF associated factor 65 beta [H.sapiens]
890	6806	AI103018	0,0		ESTs
891	10659	41400050	w,cc, General		ESTs
091	10659	Al103059	General		ESTS, Highly similar to ATPK MOUSE ATP SYNTHASE F CHAIN,
892	17400	AI103097	e		MITOCHONDRIAL [M.musculus]
893	3584	AI103106	x,aa		ESTs
894	13298	AI103143	Γ		ESTs ESTs, Weakly similar to UBC2_HUMAN UBIQUITIN-
895	15981	AI103150	i,x		CONJUGATING ENZYME E2-17 KD [R.norvegicus]
896	3475	AI103245	w		ESTs, Highly similar to AF151893 1 CGI-135 protein [H.sapiens]
898	23619	AI103314	Р		ESTs ESTs, Moderately similar to T26785 hypothetical protein Y40B1B.7 -
899	24181	A1103320	e		Caenorhabditis elegans [C.elegans]
901	4355	AI103410	General		ESTs
902	7622	AI103472	General		ESTs
903	20918	AI103552	n		ESTs
904	21579	AI103572	General	L	ESTs

TABLES	UMMARY **			et al region of the	Any. Docket No. 44221-500000
			12 m		Dos, Mo. 1793397.1
Souteneo ID No.			Medal Gode:	ComeNemo	Unitara Ciuster Tila
905	2222	AI103631	0		ESTs, Highly similar to RIE2 [M.musculus]
906	2752	AI103641	е		ESTs, Highly similar to sarcosine dehydrogenase [R.norvegicus]
907	4856	AI103708	i		ESTs
908	8990	AI103719	I,m,y,z	L	
909	15942	AI103738	r		ESTs
910	22885	AI103828	e,General		ESTs
911	15853	Al103841	x	Complement component 4	Complement component 4
912	15050	AI103911	j.y	HHs:ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	Rat Rieske iron-sulfur protein mRNA, complete cds
913	12376	AI103911	u	i i	ESTs
914	22271	Al103947	о.у		ESTs, Weakly similar to AF151109 1 putative BRCA1-interacting protein [H.sapiens]
915	20833	AI104035	f,q	HMm:RIKEN cDNA 2010000G05 gene	ESTs, Highly similar to COXG MOUSE CYTOCHROME C OXIDASE POLYPEPTIDE VIB [M.musculus]
916	7010	Al104099	w		ESTs
917	22101	AI104251	General General		ESTs ESTs
918	22833	AI104258	General		ESTs, Highly similar to translation
919	22211	Al104279	g,m		initiation factor elF6 [M.musculus]
920	10720	Al104296	Ĭ .		ESTs
921	15416	Al104340	1		ESTs
922	10991	AI104342	а		ESTs
					ESTs, Highly similar to ATRTC actin
923	18831	AI104357	p e		beta - rat [R.norvegicus] ESTs
924	7223	Al104373	e	Cytochrome c oxidase	Cytochrome c oxidase subunit VIa
925	23574	AI104520	e,g,s	subunit VIa (liver)	(liver)
					ESTs, Weakly similar to NADH:ubiquinone oxidoreductase B17
926	18509	AI104528	q		subunit [H.sapiens]
927	11680	AI104605	v		ESTs
928	12342	AI104658	w		ESTs, Weakly similar to RENAL TRANSCRIPTION FACTOR KID-1 [R.norvegicus]
929	23689	AI104685	r		Rat mitochondrial succinyl-CoA synthetase alpha subunit (cytoplasmic precursor) mRNA, complete cds
930	15377	Al104821	0,00		ESTs, Moderately similar to T50611 hypothetical protein DKFZp434H2035.1 [H.sapiens]
	22957		General		ESTs, Moderately similar to meningioma-expressed antigen 11 [H.saplens]
931		AI104897		HHs:ATP synthase, H+ transporting, mitochondrial	Rattus norvegicus delta subunit of
932	18451	AI104953	0,8	F1 complex, delta subunit	F1F0 ATPase gene, complete cds ESTs, Moderately similar to nucleolar
933	24375	Al104979	n,General		protein p40 [H.sapiens]
934	18278	AI105080	bb		ESTs, Moderately similar to SCOT_HUMAN SUCCINYL-COA:3- KETOACID-COENZYME A TRANSFERASE PRECURSOR [H.sapiens]
935	2196	AI105243	g		ESTs
			bb,		ESTs, Weakly similar to T21641 hypothetical protein F32B6.2 -
936	5199	AI105272	General		Caenorhabditis elegans [C.elegans]
937	12901	AI105301	0,8		ESTs

TABLE 1: E	SUMMARY	<b>通过接到</b> 多数	No. 171		~Alty: Doctos No. 44221-593300
					Doc. No. 1790997.
Sogvenco	(deniiler	Consultation (Consultation)	Model Godo	Gene Manno	Uniterna Civetor Titto
us coes 45	. Itelettelikei).	M36 C3C 40, 11. 41.		- /- ·	ESTs, Weakly similar to T19707
			cc.		hypothetical protein C34C6.5 -
938	7700	AI105383	General		Caenorhabditis elegans [C.elegans]
939	13343	AI105398	U		ESTS
					ESTs, Moderately similar to
				1	NEURONAL PROTEIN 3.1
940	22931	AI105417	e,General	<u> </u>	[M.musculus]
					ESTs, Highly similar to GCDH
				I than the sal Consequence A	MOUSE GLUTARYL-COA IDEHYDROGENASE PRECURSOR
044	23596	A1405425	ьь	HMm:glutaryl-Coenzyme A dehydrogenase	[M.musculus]
941	23390	AI105435	100	denydrogenase	ESTs, Moderately similar to
					DHSD HUMAN SUCCINATE
942	15893	AI105465	0		DEHYDROGENASE [H.sapiens]
943	12660	Al111492	С		ESTs
944	4479	Al111599	General		ESTs
					ESTs, Highly similar to H33_HUMAN
945	24211	AI111853	k		HISTONE H3.3 [R.norvegicus]
					ESTs, Weakly similar to FKB5
046	2520	A1444060	ļ <u>.</u>		MOUSE 51 KDA FK506-BINDING PROTEIN [M.musculus]
946	2539	AI111960	<del> </del>		EGF-CONTAINING FIBULIN-LIKE
					EXTRACELLULAR MATRIX
	1		İ		PROTEIN 1 PRECURSOR (FIBULIN-
	1	•		0	3) (FIBL-3) (T16 PROTEIN)
947	5729	Al111990	k		[R.norvegicus]
			i,q,u,		Rattus norvegicus osteoactivin mRNA
948	4049	Al112012	General		complete cds
949	12908	AI112043	<u> </u>		ESTs
950	20041	AI112161	Connect		ESTs ESTs
951 952	12937 3713	AI112462 AI112571	General b		ESTs
532	13/13	A1112371			ESTs, Moderately similar to
					UDP HUMAN URIDINE
953	12921	A1112636	General		PHOSPHORYLASE [H.sapiens]
954	12965	Al112926	General		ESTs
955	7499	Al112986	General		ESTs
		1		1	ESTs, Moderately similar to
			<u> </u>	ì	megakaryocyte stimulating factor
956 .	4969	Al113008	r		[H.sapiens] ESTs, Highly similar to BC-2 protein
957	11817	AI136295	,		[H.sapiens]
557	11017	A1130233	·		ESTs, Weakly similar to JC4975
			ł		plexin 2 precursor - mouse
959	11165	AI136372	С		[M.musculus]
960	4045	AI136460	cc		ESTs
961	12782	Al136493	k		ESTs
962	6850	AI136665	h	ecto-apyrase	ecto-apyrase
963	20920	AI136891	p,v	butyrate response factor 1	butyrate response factor 1 ESTs, Highly similar to 6.2 kd protein
064	6552	AI137062		1	[H.sapiens]
964 965	6552 22722	AI137062	i ·		ESTs
333		1, 1101211	<del></del>		ESTs, Highly similar to oxysterol-
966	13111	Al137224	o,General		binding protein [M.musculus]
967	15969	Al137302	8	İ	ESTs
968	14349	Al137303	d		ESTs
969	9166	AI137406	General		ESTs
					ESTs, Weakly similar to ZF37_RAT
	0.505		1_		ZINC FINGER PROTEIN 37 (ZFP-37)
970	9525	AI137516	r General	<del> </del>	[R.norvegicus]
971	6638	AI137579	General		ESTs, Highly similar to IMB3_HUMAN
					IMPORTIN BETA-3 SUBUNIT
	7414	AI137586	General		[H.sapiens]
1972					
972 973	11321	Al137752	Z		ESTs

TATUE (1: S	YSRAMMU				ATTY: DOCKOL No. 44921-503977. DOC. No. 1753397.
(911) (911) (101)	ldentifer:	ConDonk Acel Rol Sog ID	Modu Godi	Coro Namo	Unigene Givener VIIIe
975	13158	AI138024	i	. 1.1.2. 2	ESTs
				UDP-glucose:ceramide	UDP-glucose:ceramide
976	13467	A1138034	œ	glycosyltransferase	glycosyltransferase ESTs
977	11377 6790	Al138105 Al144801	y d,h		ESTS ESTS
978 979	6506	AI144801 AI144919	j.l.y	-	ESTs
980	8027	A1144958	i , , y		ESTs
982	14458	Al145095	General		ESTs
983	7476	Al145202	9		ESTs
					ESTs, ESTs, Weakly similar to GTP-
984	17545	AI145384	е		binding protein [H.sapiens]
985	17479	AI145385	r		ESTs
986	4194	A1145387	r		ESTs
987	8634	Al145722	9		ESTs, Weakly similar to T31511 hypothetical protein Y116A8C.9 - Caenorhabditis elegans [C.elegans] ESTs, Weakly similar to T21659
					hypothetical protein F32D8.4 -
988	8339	AI145761	y,General		Caenorhabditis elegans [C.elegans]
989	2059	AI146005	h,General		ESTs, Highly similar to pseudourldine synthase 1 [M.musculus]
	/			·	Rattus norvegicus small zinc finger-
990	23224	AI146033	0		like protein (TIM9a) mRNA, partial cds
004	5000	A1460040	<b></b>	branched chain keto acid dehydrogenase E1, beta	branched chain keto acid dehydrogenase E1, beta polypeptide
991	5232	AI168942	bb u	polypeptide	ESTs
992 992	18472 18473	AI168975 AI168975	u		IESTS
993	13235	A1169020	r		ESTs
333	13233	A1103020	o,y,		2010
994	11618	AI169115	General		ESTs
			-		ESTs, Weakly similar to T23206
					hypothetical protein K01H12.1 -
995	17386	AI169144	0		Caenorhabditis elegans [C.elegans]
					ESTs, Weakly similar to HP33
996	10984	AI169156	o,u		[R.norvegicus]
997	8205	Al169176	е		ESTs ESTs, Highly similar to RADIATION- INDUCIBLE IMMEDIATE-EARLY
998	12979	A1169177	е		GENE IEX-1 [M.musculus]
					ESTs, Highly similar to A47318 RNA- binding protein Raly - mouse
999	2607	AI169211	C		[M.musculus]
				ATPase, H+ transporting, lysosomal (vacuolar proton	ATPase, H+ transporting, lysosomal
1000	22661	A1169265	s,z	pump), subun	(vacuolar proton pump), subunit 1
1001	13239	AI169278	g,j,l,y,z		ESTs
1002	24162	Al169279	m		ESTs
					ESTs, Highly similar to Y069_HUMAN HYPOTHETICAL PROTEIN KIAA006
1003	16879	A1169284	0		[H.sapiens] [ESTs, Highly similar to H33_HUMAN]
1004	24213	AI169289	р		HISTONE H3.3 [R.norvegicus]
1005	13240	AI169311	cc		ESTs
1006	5931	AI169324	b		ESTs Highly similar to CCL 117
1007	20891	A1169337	d		ESTs, Highly similar to CGI-117 protein (H.sapiens)
1007	11979	AI169337 AI169365	cc		ESTs
1000	11013	ri 109303		arachidonic acid	1
1009	10947	AI169372	s	epoxygenase	arachidonic acid epoxygenase
1010	20697	AI169494	o,u	74	ESTs
1011	8234	AI169517	Z		ESTs
1012	18343	AI169648	0		ESTs
1013	10839	AI169655	l,m		ESTs
1014	24146	AI169668	j,l	<u> </u>	ESTs, Weakly similar to hypothetical protein [H.sapiens]

VABLE 1: LE					Ally. Doctor No. 44921-503900 Doc. No. 1793497.
Sequence ID No. 7	Contiller.	GenBenk Acc/ Ref. Seq ID	Modal Goda	Gene Name	Unigene Ciusier Tille
					ESTs, Moderately similar to T47184
					hypothetical protein
1015	22575	AI169728	r		DKFZp434F1526.1 [H.sapiens]
	1		†		ESTs, Highly similar to GENE 33
1016	804	AI169756	cc	for all the base of the	POLYPEPTIDE [R.norvegicus]  ferritin light chain 1
1017	8213 3916	AI169883 AI169947	i,bb	ferritin light chain 1	ESTs
1018	12810	A1109947	1,00		2313
1019	3733	AI170053	u.General		ESTs
1020	14179	Al170224	cc		ESTs
			i. —		ESTs, Moderately similar to class II
1021	11406	AI170263	r		cytokine receptor 4 [M.musculus]
					ESTs, Weakly similar to ZNT1 RAT
					ZINC TRANSPORTER 1
1022	3547	Al170279	General		[R.norvegicus]
					ESTs, Weakly similar to CL36 RAT
1000	11504	A1170240	.,,_		LIM DOMAIN PROTEIN CLP-36
1023 1024	11524 2729	AI170340 AI170363	j.y,z e.i		[R.norvegicus] ESTs
1025	18811	Al170525	i		ESTs
1026	22524	Al170542	h		ESTs
1020	12021	74110012			ESTs. Highly similar to CGI-10 protein
1027	24048	AI170570	a,g ´		[H.sapiens]
					ESTs, Moderately similar to AF16158
					1 GABA-A receptor-associated protei
1028	5968	AI170692	y,aa		[R.norvegicus]
1029	9757	AI170693	Ь		ESTs
1030	18905	AI170770	e.s	,	ESTs, Highly similar to NADH- ublquinone oxidoreductase NDUFS2 subunit [H.sapiens]
					ESTs, Moderately similar to
1031	16170	A1170894	<u>i                                      </u>		adipophilin (H.sapiens)
					Hyaluronan mediated motility recepto
1032	7089	AI171185	b b	receptor (RHAMM)	(RHAMM)
1033	17591	AI171354	<u> </u>		ESTs, Weakly similar to AIF-C1
1034	13285	Al171361	h	·	[R.norvegicus]
1034	13203	A1171301	<del> </del>	HHs:NADH dehydrogenase	ESTs, Moderately similar to
1035	4428	AI171362	a	(ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase)	NUAM_HUMAN NADH-UBIQUINONE OXIDOREDUCTASE 75 KD SUBUNI PRECURSOR [H.sapiens]
			1		ESTs, Highly similar to S16788
1036	18126	AI171369	w		probable reverse transcriptase - rat [R.norvegicus]
	1		1		ESTs, Moderately similar to 68MP
1037	23253	Al171448	0		PROTEOLIPID [M.musculus]
.501	20200	ATT 1770	m,		
1038	4584	AI171492	General		ESTs
	1.22		1		ESTs, Moderately similar to
	]		1		NADH:ubiquinone oxidoreductase B2
1039	11158	AI171542	r,s		subunit [H.sapiens]
1040	15345	AI171587			ESTs
1041	21183	AI171676	k		ESTs
					Rattus norvegicus kynurenine
					aminotransferase/glutamine
1040	8245	A1474500	ļ.	familia liabi shala f	transaminase K (Kat) gene, complete
1042	8215 11437	AI171692	<u> -</u> -	ferritin light chain 1	cds,ferritin light chain 1
1043 1044	11437 2625	AI171794 AI171800	l'	,	ESTs
1044	2625	A1171800 A1171802	cc v		ESTS
1045	11708	A1171807	l,t		ESTS
1040	11700	A11 1001	,, <u>,</u>		
1047	17204	Al171844	s,y.z	HMm:RIKEN cDNA 2410043G19 gene	Rattus norvegicus F1-ATPase epsilor subunit mRNA, nuclear gene encodir mitochondrial protein, complete cds

Sequence :   Ident	88 3 3 9	GenBank Accl Ref. Seq ID	m l,m t a.q,bb b m z n bb l,m d d	Cero Name	DGG. No. 17983976  Unigene Cluster Title  ESTs  ESTs, Highly similar to T08675 hypothetical protein DKFZp564F0522.1 [H.sapiens]  ESTs  ESTs  ESTs. Weakly similar to T33238 hypothetical protein T10H9.3 - Caenorhabditis elegans [C.elegans]  ESTs  Rat mRNA for 5E5 antigen, complete cds  ESTs  ESTs, Weakly similar to FETA RAT ALPHA-FETOPROTEIN PRECURSOR [R.norvegicus]  ESTs  ESTs  ESTs  ESTs  ESTs  ESTs  ESTs  ESTs  ESTs  ESTs  ESTs  ESTs  ESTs  EST-
1049 3266 1050 19012 1051 11205 1052 6057 1053 19128 1054 15673 1055 6630 1056 11968 1057 6974 1058 23313 1059 2140 1060 15382 1061 18689 1062 17887 1063 3042 1064 17291 1065 26222 1066 13095 1067 8795	8 3 3 9	AI171948 AI172056 AI172057 AI172102 AI172103 AI172107 AI172184 AI172208 AI172263 AI172271 AI172272	l,m t a,q,bb b m z n bb i,m d		ESTs, Highly similar to T08675 hypothetical protein DKFZp564F0522.1 [H.sapiens] ESTs ESTs ESTs, Weakly similar to T33238 hypothetical protein T10H9.3 - Caenorhabditis elegans [C.elegans] ESTs Rat mRNA for 5E5 antigen, complete cds ESTs ESTs, Weakly similar to FETA RAT ALPHA-FETOPROTEIN PRECURSOR [R.norvegicus] ESTs ESTs ESTs ESTs ESTs ESTs ESTs, Moderately similar to A53004 transcription elongation factor S-II - ra
1050         19012           1051         11205           1052         6057           1053         19128           1054         15673           1055         6630           1056         11968           1057         6974           1058         23313           1059         2140           1060         15382           1061         18689           1062         17887           1063         3042           1064         17291           1065         26222           1066         13095           1067         8795           1068         6454           1070         4445	2 5 8 8 3 8 3 2 9	AI172056 AI172057 AI172102 AI172103 AI172107 AI172184 AI172208 AI172263 AI172271 AI172272	t a.q.bb b m z n bb I,m d		hypothetical protein DKFZp564F0522.1 [H.sapiens] ESTs ESTs ESTs. Weakly similar to T33238 hypothetical protein T10H9.3 - Caenorhabditis elegans [C.elegans] ESTs Rat mRNA for 5E5 antigen, complete cds ESTs ESTs, Weakly similar to FETA RAT ALPHA-FETOPROTEIN PRECURSOR [R.norvegicus] ESTs ESTs ESTs ESTs ESTs ESTs, Moderately similar to A53004 transcription elongation factor S-II - ra
1050         19012           1051         11205           1052         6057           1053         19128           1054         15673           1055         6630           1056         11968           1057         6974           1058         23313           1059         2140           1060         15382           1061         18689           1062         17887           1063         3042           1064         17291           1065         26222           1066         13095           1067         8795           1068         6454           1070         4445	2 5 8 8 3 8 3 2 9	AI172056 AI172057 AI172102 AI172103 AI172107 AI172184 AI172208 AI172263 AI172271 AI172272	t a.q.bb b m z n bb I,m d		ESTs ESTs, Weakly similar to T33238 hypothetical protein T10H9.3 - Caenorhabditis elegans [C.elegans] ESTs Rat mRNA for 5E5 antigen, complete cds ESTs ESTs, Weakly similar to FETA RAT ALPHA-FETOPROTEIN PRECURSOR [R.norvegicus] ESTs ESTs ESTs ESTs ESTs ESTs ESTs
1051         11205           1052         6057           1053         19128           1054         15673           1055         6630           1056         11968           1057         6974           1058         23313           1059         2140           1060         15382           1061         18689           1062         17887           1063         3042           1064         17291           1065         26222           1066         13095           1067         8795           1068         6454           1070         4445	8 8 3 3 9	AI172102 AI172103 AI172107 AI172184 AI172208 AI172263 AI172271 AI172272	b m z n bb i,m d		ESTs ESTs, Weakly similar to T33238 hypothetical protein T10H9.3 - Caenorhabditis elegans [C.elegans] ESTs Rat mRNA for 5E5 antigen, complete cds ESTs ESTs, Weakly similar to FETA RAT ALPHA-FETOPROTEIN PRECURSOR [R.norvegicus] ESTs ESTs ESTs ESTs ESTs ESTs ESTs - Roderately similar to A53004 transcription elongation factor S-II - ra
1052 6057 1053 19128 1054 15673 1055 6630 1056 11968 1057 6974 1058 23313 1059 2140 1060 15382 1061 18689 1062 17887 1063 3042 1064 17291 1065 26222 1066 13095 1067 8795	8 3 3 2 9 9	AI172102 AI172103 AI172107 AI172184 AI172208 AI172263 AI172271 AI172272	b m z n bb i,m d		ESTs, Weakly similar to T33238 hypothetical protein T10H9.3 - Caenorhabditis elegans [C.elegans] ESTs Rat mRNA for 5E5 antigen, complete cds ESTs ESTs, Weakly similar to FETA RAT ALPHA-FETOPROTEIN PRECURSOR [R.norvegicus] ESTs ESTs ESTs ESTs ESTs ESTs, Moderately similar to A53004 transcription elongation factor S-II - ra
1053         19128           1054         15673           1055         6630           1056         11968           1057         6974           1058         23313           1059         2140           1060         15382           1061         18689           1062         17887           1063         3042           1064         17291           1065         26222           1066         13095           1067         8795           1068         6454           1070         4445	8 8 8 8 8 8 8 9 9 9 9	AI172103  AI172107  AI172184  AI172208  AI172263  AI172271  AI172272	m z n bb l,m d		Caenorhabditis elegans [C.elegans] ESTs Rat mRNA for 5E5 antigen, complete cds ESTs ESTs, Weakly similar to FETA RAT ALPHA-FETOPROTEIN PRECURSOR [R.norvegicus] ESTs ESTs ESTs, Moderately similar to A53004 transcription elongation factor S-II - ra
1053         19128           1054         15673           1055         6630           1056         11968           1057         6974           1058         23313           1059         2140           1060         15382           1061         18689           1062         17887           1063         3042           1064         17291           1065         26222           1066         13095           1067         8795           1068         6454           1070         4445	8 8 8 8 8 8 8 9 9 9 9	AI172103  AI172107  AI172184  AI172208  AI172263  AI172271  AI172272	m z n bb l,m d		ESTs Rat mRNA for 5E5 antigen, complete cds ESTs ESTs, Weakly similar to FETA RAT ALPHA-FETOPROTEIN PRECURSOR [R.norvegicus] ESTs ESTs ESTs, Moderately similar to A53004 transcription elongation factor S-II - ra
1054 15673 1055 6630  1056 11968 1057 6974 1058 23313  1059 2140  1060 15382 1061 18689  1062 17887  1063 3042  1064 17291 1065 26222 1066 13095 1067 8795	3 8 3 3	AI172107 AI172184 AI172208 AI172263 AI172271 AI172272	z n bb l,m d		Rat mRNA for 5E5 antigen, complete cds ESTs ESTs, Weakly similar to FETA RAT ALPHA-FETOPROTEIN PRECURSOR [R.norvegicus] ESTs ESTs ESTs ESTs, Moderately similar to A53004 transcription elongation factor S-II - ra
1055 6630  1056 11968 1057 6974 1058 23313  1059 2140  1060 15382 1061 18689  1062 17887  1063 3042  1064 17291 1065 26222 1066 13095 1067 8795	3	AI172184  AI172208 AI172263 AI172271  AI172272  AI172302	n I,m d General		ESTs ESTs, Weakly similar to FETA RAT ALPHA-FETOPROTEIN PRECURSOR [R.norvegicus] ESTs ESTs ESTs ESTs, Moderately similar to A53004 transcription elongation factor S-II - ra
1056 11968 1057 6974 1058 23313 1059 2140 1060 15382 1061 18689 1062 17887 1063 3042 1064 17291 1065 26222 1066 13095 1067 8795 1068 6454 1070 4445	2 9	AI172208 AI172263 AI172271 AI172272	bb I,m d General		ESTs, Weakly similar to FETA RAT ALPHA-FETOPROTEIN PRECURSOR [R.norvegicus] ESTs ESTs ESTs, Moderately similar to A53004 transcription elongation factor S-II - ra
1057         6974           1058         23313           1059         2140           1060         15382           1061         18689           1062         17887           1063         3042           1064         17291           1065         26222           1066         13095           1067         8795           1068         6454           1070         4445	2 9	AI172263 AI172271 AI172272 AI172302	I,m d General		ESTs ESTs, Moderately similar to A53004 transcription elongation factor S-II - ra
1058 23313 1059 2140 1060 15382 1061 18689 1062 17887 1063 3042 1064 17291 1065 26222 1066 13095 1067 8795 1068 6454 1070 4445	2 9	Al172271 Al172272 Al172302	d General		ESTs ESTs, Moderately similar to A53004 transcription elongation factor S-II - ra
1059 2140  1060 15382 1061 18689  1062 17887  1063 3042  1064 17291 1065 26222 1066 13095 1067 8795  1068 6454  1070 4445	2	Al172272 Al172302	General		ESTs, Moderately similar to A53004 transcription elongation factor S-II - ra
1060 15382 1061 18689 1062 17887 1063 3042 1064 17291 1065 26222 1066 13095 1067 8795 1068 6454	2 9	Al172302		I .	[R.norvegicus]
1061     18689       1062     17887       1063     3042       1064     17291       1065     26222       1066     13095       1067     8795       1068     6454       1070     4445	9		I,p,		ESTs, Weakly similar to S43056 hypothetical protein - mouse
1062 17887  1063 3042  1064 17291 1065 26222 1066 13095 1067 8795  1068 6454  1070 4445	-		General		[M.musculus] ESTs
1063 3042 1064 17291 1065 26222 1066 13095 1067 8795 1068 6454 1070 4445	,	Al172329	<u>'</u>		Rattus norvegicus apoptosis-
1064 17291 1065 26222 1066 13095 1067 8795 1068 6454		Al172414	0		regulating basic protein mRNA, complete cds
1064 17291 1065 26222 1066 13095 1067 8795 1068 6454		Al172447	General		ESTs, Highly similar to A44437 regenerating liver inhibitory factor RL/IF-1 - rat [R.norvegicus]
1065 26222 1066 13095 1067 8795 1068 6454 1070 4445		AI172491	bb .	HMm:isocitrate dehydrogenase 2 (NADP+), mitochondrial	ESTs, Weakly similar to IDHC RAT ISOCITRATE DEHYDROGENASE [R.norvegicus]
1066 13095 1067 8795 1068 6454 1070 4445		AI172491	p	mitocrionariai	[[K.HOIVegicus]
1067 8795 1068 6454 1070 4445		AI172595	r		ESTs
1068 6454 1070 4445		AI172618	General	<del> </del>	ESTs
1070 4445		7.111 2010	00		ESTs, Weakly similar to T31067 BIR repeat containing ubiquitin- conjugating enzyme BRUCE - mouse
		Al175342	j,1,m,y		[M.musculus] [ESTs, Highly similar to RRAS MOUSE
		AI175466	x		RAS-RELATED PROTEIN R-RAS [M.musculus]
1071 3418					ESTs, Highly similar to NHPX RAT NHP2/RS6 FAMILY PROTEIN
		AI175475	m		YEL026W HOMOLOG [R.norvegicus] ESTs, Moderately similar to AF145050
	_		l	I	1 translation elongation factor 1-delta
1072 18507		AI175551	bb		subunit [R.norvegicus]
1073 10217		AI175628	w		ESTs
1074 7262		AI175833	j,m,x		ESTs
1075 19004		A1175875	I Coccer'		ESTS
1076 22352	2	AI175959	I,General		ESTs. Highly similar to pirin
1077 7022	!	Al176041	h,n		[H.sapiens]  ESTs, Weakly similar to tazarotene-
1078 21467	, I	AI176061	lt		induced gene 2 [H.sapiens]
1079 18581		A1176160	General	1	ESTs
1080 14159		Al176169	g	<u> </u>	ESTs
1081 21742	g T	AI176172	w		ESTs
					ESTs, Highly similar to P55-C-FOS PROTO-ONCOGENE PROTEIN
1082 10182 1083 22765		AI176185	v General		[R.norvegicus] ESTs

Tadue 1: S	WMMARY			<b>194</b>	Ally: Doctol No. 44921-5009XXX Doc, No. 17933937.
Seguence ID No:		GenBenk Acc Rel Seg ID	Model	Gono Namo	Unigono Giustor Villo
					ESTS, Weakly similar to GSHH RAT PHOSPHOLIPID HYDROPEROXIDE GLUTATHIONE PEROXIDASE
1084	6905	AI176275	а		[R.norvegicus] UAP1_HUMAN UDP-N- ACETYLHEXOSAMINE
1085	12999	AI176276	СС		PYROPHOSPHORYLASE [H.sapiens   ESTs, Highly similar to
					SMD2_HUMAN SMALL NUCLEAR RIBONUCLEOPROTEIN SM D2
1086	16438	AI176294	8		[H.sapiens]
1087	21130	AI176298	У		ESTs
1088	3014	AI176362	е		ESTs
1089	15015	AI176363	r		ESTs
1090	19006	AI176393	Χ		ESTs
					ESTs, Moderately similar to QPS1
1091	20001	AI176396	0		[H.sapiens]
1092	12174	AI176435	j,m		ESTs
	1	T			Rat metallothionein-2 and
1093	15191	AI176456	b,o,t,v,cc	-	metallothionein-1 genes, complete cds
1094	24236	AI176473	d.General		ESTs
1001					ESTs, Moderately similar to HS9B RAT HEAT SHOCK PROTEIN HSP
1095	16518	AI176546	lv		90-BETA [R.norvegicus]
1096	2161	AI176592	General		ESTs
4007		41470040	Canami		ESTs, Weakly similar to S63220 probable membrane protein YNL247w - yeast (Saccharomyces cerevisiae) (S.cerevisiae)
1097	12436	A1176610	General I,v,		ESTs
1098	2536	AI176616	General		IESTS
1099	18525	AI176792	U		ESTS .
1100	23449	AI176828	9		
1101	23299	AI176839	General		ESTs
1102	3580	AI176848	θ		ESTS
1103	22103	AI176849	d,General		ESTs
1104	16036	AI176855	r		ESTs ESTs, Highly similar to phosphomannomutase Sec53p
4405	45500	A147C046	Conomi		homolog [M.musculus]
1105	15588	AI176916	General		ESTs
1106	16917	AI176951	<u> </u>		Rattus norvegicus transcription factor
1107	16124	AI176963	cc		MRG1 mRNA, complete cds
1108	15146	A1176969	b,General		ESTs ESTs. Weakly similar to PSE-binding
1100	5786	AI177058	le .		factor PTF delta subunit [H.sapiens]
1109	5786		C		ESTs
1110	2852	AI177059	<u>c</u>		ESTs, Highly similar to AF139894 1 RNA-binding protein alpha-CP1
1112	3156	AI177092	g		[M.musculus]
1113	14384	AI177096	a	HMm:adenine phosphoribosyl transferase	phosphoribosyltransferase (APRT) gene, complete cds
					ESTs, Weakly similar to C1QB RAT COMPLEMENT C1Q SUBCOMPONENT, B CHAIN
1114	13310	Al177119	General		PRECURSOR [R.norvegicus] ESTs, Highly similar to CGI-10 proteir
1115	24049	AI177341	g.p.s.u		[H.sapiens]
1116	15964	AI177360	o,General		ESTs
1117	14989	AI177366	U	Integrin, beta 1	Integrin, beta 1
1118	7975	AI177374	aa		ESTs

TABLE 1: 8	BUMMARY				Ally. Doctol No. 44921-500900 Doc. No. 1793397.
Sequence, ID No.	.11	Condinkace Role Scotle	Model	Cono Namo	Univers Cluster Tille
					Rattus norvegicus substrate binding
1119	3006	AI177395	k		subunit of type II 5'-deiodinase D2p29 mRNA, complete cds
1400	47570	41477600			Rattus norvegicus mRNA for hnRNP
1120 1121	9521	AI177683 AI177706	b		protein, partial
1122 1123	10611	A1177755 A1177790	g,General		ESTs ESTs
1120	1.0011	ATTITUDE	J		ESTs, Moderately similar to S27962
4404	5050	A1477040			modulator recognition factor 1
1124	5356	AI177813	CC		[H.sapiens] ESTs, Highly similar to SAS_HUMAN
					SARCOMA AMPLIFIED SEQUENC
1125	11791	AI177843	General		[H.sapiens] ESTs, Weakly similar to putative eps
1126	14484	AI177867	General		protein [R.norvegicus]
					ESTs, Weakly similar to DRAL
1127	5780	AI177869	General		[R.norvegicus] ESTs, Highly similar to TGIF MOUSE
					5'-TG-3' INTERACTING FACTOR
1128	19184	Al178025	General		[M.musculus]
1129	6059	AI178245	c.General		ESTs, Moderately similar to C17orf1 protein (H.sapiens)
1120	10000	7.47.02.40	,	<del></del>	ESTs, Weakly similar to hypothetical
1130	23248	AI178267	у		protein [H.sapiens]
					ESTs, Weakly similar to YAE6 YEAST HYPOTHETICAL 13.4
		·			KD PROTEIN IN ACS1-GCV3
1131 1132	4073 7838	AI178272 AI178291	e		INTERGENIC REGION [S.cerevisiae] ESTs
1133	18996	A1178326	у		ESTS
<del></del>					ESTs, Highly similar to 149523 Mouse
1134	22488	AI178392	Ь		primary response gene B94 mRNA, 3'end - mouse [M.musculus]
1135	18800	Al178504	n,p,aa		ESTs
4420	22407	A1470507	- Canarat		ESTs
1136	22197	Al178527	g,General	<del> </del>	ESTS, Highly similar to MCM3
	İ	·			MOUSE DNA REPLICATION
1137	3401	AI178684	ЬЬ		LICENSING FACTOR MCM3 [M.musculus]
1138	17713	AI178700	m		ESTs
1139	14874	Al178735	0		ESTs
1140	23567	AI178746	v,General	·	ESTs Rattus norvegicus alpha-globin (GloA)
1141	18907	AI178971	С		gene, complete cds
1142	20991	AI178979	<u> </u>		ESTs   ESTs, Moderately similar to Vanin-1
1143	5887	AI179099	q,t		[M.musculus]
			b,e,		
1144 1145	8477 3348	AI179167 AI179288	General u,v		ESTs ESTs
1146	13608	AI179314	8		ESTs
1147	8849	Al179315	g.p		ESTs
1148	13611	Al179378	v,General		Rattus norvegicus mRNA for prostasir precursor, complete cds
1149	15438	Al179399	m,x	collagen type V, alpha 2	collagen type V, alpha 2
					ESTs, Moderately similar to RB17
1150	13614	AI179407	e,t, General		MOUSE RAS-RELATED PROTEIN RAB-17 [M.musculus]
1151 1152	15042 2768	AI179422 AI179481	b,General i,General		ESTs .
1153	24041	A1179580	b,i	_	ESTS

TABLE 1: S			d=16		:::\AU\ Docket No. 44921-5019\
	19				Dog. No. 1793997.1
Sogrioùeo :	- No. 1751 18	Good Good Vocal	000000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	ใช้อากักอะ	Cenenk Ace Ral Seque	Code	Cone Name	Unitero Ciusior Tille
1		-			R.norvegicus mRNA for ras-related
1154	19822	AI179599	o,General		GTPase Rab29
1155	23270	AI179601	g,General		ESTs ESTs
1156 1157	16081	AI179605 AI179610	g,i,p	Heme oxygenase	Heme oxygenase
1158	14564	A1179717	k	Tienie oxygenase	ESTs
1159	7918	Al179750	General		ESTs
1160	6647	AI179795	9		ESTs
				hypothetical protein	
1161	9097	AI179875	o,General	LOC56728	hypothetical protein LOC56728
			ĺ		ESTs, Highly similar to GAP
4400		*******	1_		JUNCTION BETA-2 PROTEIN [R.norvegicus]
1162 1163	23989 12899	AI179953 AI179967	a b		[ESTs
1164	1687	AI179971	c	Hemoglobin, alpha 1	Hemoglobin, alpha 1
1165	22569	Al179979	General	The state of the s	ESTs
					ESTs, Highly similar to L-3-
				HHs:phosphoserine	phosphoserine phosphatase
1166	23514	AI179986	o,General	phosphatase	[H.sapiens]
			١		lear.
1167	15892	A1179988	c,General		ESTs ESTs, Highly similar to Unknown
1168	12402	AI180004	_		[H.sapiens]
1100	12402	A1100004	9		ESTs. Moderately similar to testis
1169	5443	Al180165	General		specific DNAi-homolog [M.musculus]
					ESTs, Highly similar to A Chain A,
					The Crystal Structure Of Human
	1				Eukaryotic Release Factor Erf1-
					Mechanism Of Stop Codon
					Recognition And Peptidyl-Tma
1170 .	5481	AI180170	General_		Hydrolysis [H.sapiens] [ESTs
1171	24028	AI180239	1		ESTs, Moderately similar to JC4978
					oxidative stress protein A170 - mouse
1172	17089	A1180281	a		[M.musculus]
		<u> </u>	,		ESTs, Moderately similar to
			•		Y273_HUMAN HYPOTHETICAL
1173	3701	AI180306	aa		PROTEIN KIAA0273 [H.sapiens]
1174	3352	AI180334	m		ESTs
					ESTs, Highly similar to AF114169 1 nucleotide-binding protein short form
1175	24368	AI180392	l,m		[M.musculus]
11/5	24300	A1100392	1,111	<del></del>	ESTs, Moderately similar to SPA1
		•	1	·	MOUSE GTPASE-ACTIVATING
1176	14337	AI180414	c		PROTEIN SPA-1 [M.musculus]
					Rattus norvegicus chemokine CX3C
1177	19080	AI227647	j.y.z		mRNA, complete cds
1178	22838	AI227667	aa		ESTs
	1		I		ESTs, Highly similar to T00367
1170	6765	A1227761	i,General		hypothetical protein KIAA0665 [H.sapiens]
1179	0703	Al227761	1,06(16(4)		ESTs. Weakly similar to AF187065 1
					p75NTR-associated cell death
1180	24054	AI227867	General		executor [R.norvegicus]
1181	7324	AI227885	i		ESTs
1182	23898	Al227987	d		ESTs
		l		Peptidylglycine alpha-	Peptidylglycine alpha-amidating
1183	1651	A1228068	n,w	amidating monooxygenase	monooxygenase
1184	14237	AI228128	e		ESTs. Weakly similar to
	1	ļ	[		C211 HUMAN PUTATIVE PROTEIN
1185	14242	A1228197	General		C21ORF18 [H.sapiens]
1186	16913	AI228236	0		ESTs
					ESTs, Highly similar to p97
1187	22915	AI228299	r	1	homologous protein [H.sapiens]

VABUE 1: S	WANARY V	10.5			Atty, Doctol No. 44921-5039XX Doc. No. 1793397.
Sequence ID No.	ldeallier".	Godenik Acci. Rol Scolid	Good Model	Cons Name 45	Unigero Civster Tille
1188	8917	AI228301	General		ESTs
1189	15879	AI228313	r,General		ESTs
1190	13727	AI228326	o.General		ESTs, Weakly similar to AFG1_YEAST AFG1 PROTEIN [S.cerevislae]
1191	6102	AI228335	General		ESTs
					ESTs, Weakly similar to S70642 ubiquitin ligase Nedd4 - rat
1192	13730	AI228356	a		[R.norvegicus]
1193	13745	A1228494	b,cc		EST ESTs, Weakly similar to M172_HUMAN MEMBRANE COMPONENT, CHROMOSOME 17,
1194	4217	AI228587	s		SURFACE MARKER 2 [H.sapiens]
1195	16053	AI228596	cc	·	ESTs, Weakly similar to T16757 hypothetical protein R144.3 - Caenorhabditis elegans [C.elegans]
1196	3557	AI228672	е		ESTs
1197	11605	AI228682	е		ESTs
1198	13203	A1228728	r		ESTs ESTs, Highly similar to protein inhibitor of activated STAT protein
1199	13771	A1228848	g		PIAS1 [H.sapiens]
1200	5918	Al229036	r		ESTs
1201	8235	Al229154	k	Vesicle-associated membrane protein	ESTs Vesicle-associated membrane protein
1202	16203	Al229196	r	(synaptobrevin 2)	(synaptobrevin 2)
1203	13826	A1229304	а		ESTs
1204	13144	AI229320	9		ESTs
1205	4640	Al229404	x,aa		ESTs ESTs, Moderately similar to MKK2 MOUSE MAP KINASE-ACTIVATED
1206	23563	AI229421	1		PROTEIN KINASE 2 [M.musculus] ESTs, Moderately similar to NADH- ublquinone oxidoreductase PDSW
1207	15426	AI229497	s		subunit [H.sapiens]
1208	15193	AI229508	bb		ESTs
1209	19243	A1229638	x		ESTs, Highly similar to KITH RAT THYMIDINE KINASE, CYTOSOLIC [R.norvegicus]
1210	23078	AI229647	p		ESTs
	23070	MLLSGA	<u> </u>	HHs:NADH dehydrogenase (ubiquinone) Fe-S protein 3 (30kD) (NADH-coenzyme Q	ESTs, Highly similar to
1211	3099	AI229680	0	reductase)	NDUFS3 subunit [H.sapiens] Sprague-Dawley D-beta-
1212	19508	AI229698	bb		hydroxybutyrate dehydrogenase mRNA, complete cds Rattus norvegicus mRNA for class I
1213	13977	AI229707	x		beta-tubulin, complete cds ESTs, Moderately similar to
1214	23983	AI229708	v		NADC_HUMAN NICOTINATE- NUCLEOTIDE PYROPHOSPHORYLASE [H.sapiens]
1215	2688	AI229793	е		ESTs
1216	13874	AI229832	9		ESTs, Weakly similar to KIAA0859 protein [H.sapiens]
1217	12587	AI229979	General		ESTs, Weakly similar to MOT2 RAT MONOCARBOXYLATE TRANSPORTER 2 [R.norvegicus]
1218	20591	AI229993	l,m		ESTs
1219	24042	AI230002	a,b,d, General		ESTs
1220	13880	AI230042	u		Rattus norvegicus mRNA for voltage- gated ca channel, complete cds

TADLE 1: S					-: Ally. Docket No. 44921-59391W3 Doc. No. 1790597.1
Sequences. ID Noi	ideniiler»	Gondent (/cc/s Roll Segilo :	Model Godo	Cone Namo	Valgeno Civeter Title
1221	17672	Al230074	d	HMm:NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1	ESTs, Highly similar to NIMM MOUSE NADH-UBIQUINONE OXIDOREDUCTASE MWFE SUBUNIT [M.musculus]
1222	3652	AI230113	General		Rattus norvegicus hfb2 mRNA, complete cds
1223	18650	Al230121	аа		ESTs, Weakly similar to HS9B RAT HEAT SHOCK PROTEIN HSP 90- BETA [R.norvegicus]
4004	42025	A1020472			ESTs, Moderately similar to CHD3_HUMAN CHROMODOMAIN HELICASE-DNA-BINDING PROTEIN
1224 1225	13025 4280	AI230173	z	selenoprotein P, plasma, 1	3 [H.sapiens] selenoprotein P, plasma, 1
1225	18528	AI230247 AI230284	General	seienoprotein F, piasma, 1	ESTs
1227	7084	AI230264	p		ESTs, Moderately similar to T46458 hypothetical protein DKFZp434M102.1 [H.sapiens]
1228	20895	Al230549	b,n		ESTs
1229	12961	AI230554	General		ESTs Rattus norvegicus mRNA for galectin-
1230	15636	Al230616	<u>r</u>		2 related protein, complete cds
1231	4121	A1230647	j,m	<u>-</u>	ESTs ESTs, Highly similar to HN1
1232	14388	AI230702	General		[M.musculus]
1233	18529	AI230716	x,General		ESTs Rattus norvegicus phosphoinositide phosphatase SAC1 mRNA, complete
1234	13618	A1230724	General		cds
1235	8304	A1230746	cc		ESTs
1236	4731	AI230773	e		ESTs
1237	14430	Al230798	c,k,x		ESTs, Moderately similar to CDN3_HUMAN CYCLIN- DEPENDENT KINASE INHIBITOR 3 [H.sapiens] ESTs, Highly similar to AF102850 1
1238	16627	AI230822	bb	HHs:Alg5, S. cerevisiae, homolog of	dolichyl-phosphate beta- glucosyltransferase [H.sapiens]
				·	Rattus norvegicus mRNA for brain
1239	3125	AI231028	General		4.1(S), complete cds
1240	633	Al231127	k		ESTs ESTs, Highly similar to RL2B_HUMAN 60S RIBOSOMAL PROTEIN L23A
1241	20846	A1231140	Þ		[R.norvegicus]
1242	6743	AI231219	d		ESTs
1244	26292	Al231391	<u> </u>		ESTO
1245	12343	AI231433	W		ESTs ESTs
1246 1247	7337	AI231465 AI231506	aa . General		ESTs
	16321		i,l		ESTs, Highly similar to Z183_HUMAN ZINC FINGER PROTEIN 183 [H.sapiens]
1248	8004	A1231532			ESTs, Moderately similar to BAG- family molecular chaperone regulator-
1249	15171	AI231792	9	<del></del>	3 [H.sapiens]
1250	6193 14227	Al231797 Al231999	u		ESTs ESTs, Moderately similar to tumor protein D53 [M.musculus]
1253	24501	Al232006	w,y,bb		Rattus norvegicus translation elongation factor 1-delta subunit mRNA, partial cds
1254	3434	A1232014	g,q,z,cc, General		ESTs
1255	19094	Al232021	n,General		ESTs, Highly similar to Human Translation Initiation Factor Eif1, Nmr, 29 Structures [H.sapiens]

Sequence   Idea	20 A 6 A 49 A 55 A 22 A 6 A 46 A 6	EGRETATS A GOD 1232076 1232157 1232157 1232174 1232266 1232270 1232272 1232272 1232281 1232294 1232303	Model Gode  u d I,m j,s  bb  o g u,bb, General		Unigene Gluster Title ESTs ESTs ESTs ESTs ESTs, Moderately similar to JC4914 anti-signa cross-reacting protein homolog I beta precursor [H.sapiens] ESTs, Weakly similar to T25417 hypothetical protein T28D6.9 - Caenorhabditis elegans [C.elegans] ESTs, Weakly similar to KIAA0971 protein [H.sapiens] ESTs ESTs, Weakly similar to Sid1669p
1256	20 A 6 A 49 A 55 A 22 A 6 A 46 A 6	R266 S20 (ID)  1232076  1232157  1232174  1232266  1232270  1232272  1232281  1232294  1232303	eode :  u d l,m j,s  bb  o g u,bb, General		Unigene Cluster Title:  ESTs  ESTs  ESTs  ESTs  ESTs  ESTs, Moderately similar to JC4914 anti-sigma cross-reacting protein homolog I beta precursor [H.sapiens]  ESTs, Weakly similar to T25417 hypothetical protein T28D6.9 - Caenorhabditis elegans [C.elegans]  ESTs, Weakly similar to KIAA0971 protein [H.sapiens]  ESTs  ESTs  ESTs
1256 1402 1257 6726 1258 115- 1259 2312 1260 2085 1261 2913 1262 1430 1263 1595 1264 1512 1265 4716 1266 1524 1267 2432	20 A A A A A A A A A A A A A A A A A A A	N232076 N232157 N232174 N232266 N232270 N232272 N232281 N232294 N232294	u d I,m j.s bb o g u,bb, General		ESTs ESTs ESTs ESTs ESTs ESTs, Moderately similar to JC4914 anti-sigma cross-reacting protein homolog I beta precursor [H.sapiens] ESTs, Weakly similar to T25417 hypothetical protein T28D6.9 - Caenorhabditis elegans [C.elegans] ESTs, Weakly similar to KIAA0971 protein [H.sapiens] ESTs ESTs, Weakly similar to Sid1669p
1257 6726 1258 1154 1259 2312 1260 2085 1261 2913 1262 1430 1263 1595 1264 1512 1265 4716 1266 1524 1267 2432	6 A 49 A 25 A 5 A 04 A 22 A 6 A 46 A	N232157 N232174 N232266 N232270 N232272 N232281 N232294 N232303	d I,m j,s bb o g u,bb, General		ESTs ESTs ESTs ESTs ESTs, Moderately similar to JC4914 anti-sigma cross-reacting protein homolog I beta precursor [H.sapiens] ESTs, Weakly similar to T25417 hypothetical protein T28D6.9 - Caenorhabditis elegans [C.elegans] ESTs, Weakly similar to KIAA0971 protein [H.sapiens] ESTs ESTs, Weakly similar to Sid1669p
1258 1154 1259 2312 1260 2085 1261 2913 1262 1430 1263 1595 1264 1512 1265 4716 1266 1524 1267 2432	49 A 25 A 5 A 3 A 04 A 55 A 22 A 6 A 46 A	N232174 N232266 N232270 N232272 N232281 N232294 N232303	i,m j,s bb o g u,bb, General		ESTs ESTs, Moderately similar to JC4914 anti-sigma cross-reacting protein homolog I beta precursor [H.sapiens] ESTs, Weakly similar to T25417 hypothetical protein T28D6.9 - Caenorhabditis elegans [C.elegans] ESTs, Weakly similar to KIAA0971 protein [H.sapiens] ESTs ESTs
1259 2312 1260 2085 1261 2913 1262 1430 1263 1595 1264 1512 1265 4716 1266 1524 1267 2432	25 A 5 A 04 A 55 A 22 A 6 A 46 A	AI232270 AI232272 AI232272 AI232281 AI232294 AI232303 AI232313	j,s bb o g u,bb, General		ESTs ESTs, Moderately similar to JC4914 anti-sigma cross-reacting protein homolog I beta precursor [H.sapiens] ESTs, Weakly similar to T25417 hypothetical protein T28D6.9 - Caenorhabditis elegans [C.elegans] ESTs, Weakly similar to KIAA0971 protein [H.sapiens] ESTs ESTs
1260 2085 1261 2913 1262 1430 1263 1595 1264 1512 1265 4716 1266 1524 1267 2432	5 A 3 A 04 A 55 A 22 A 6 A 46 A	N232270 N232272 N232281 N232294 N232303	o g u,bb, General		ESTs, Moderately similar to JC4914 anti-sigma cross-reacting protein homolog I beta precursor [H.sapiens] ESTs, Weakly similar to T25417 hypothetical protein T28D6.9 - Caenorhabditis elegans [C.elegans] ESTs, Weakly similar to KIAA0971 protein [H.sapiens]  ESTs  ESTs  ESTs, Weakly similar to Sid1669p
1261 2913 1262 1430 1263 1595 1264 1512 1265 4716 1266 1524 1267 2432	3 A 04 A 55 A 22 A 6 A 46 A	N232272 N232281 N232294 N232303 N232313	o g u,bb, General		anti-sigma cross-reacting protein homolog I beta precursor [H.sapiens] ESTs, Weakly similar to T25417 hypothetical protein T28D6.9 - Caenorhabditis elegans [C.elegans] ESTs, Weakly similar to KIAA0971 protein [H.sapiens]  ESTs ESTs ESTs, Weakly similar to Sid1669p
1262 1430 1263 1595 1264 1512 1265 4716 1266 1524 1267 2432	04 A 55 A 22 A 6 A 46 A	N232281 N232294 N232303 N232313	g u,bb, General		hypothetical protein T28D6.9 - Caenorhabditis elegans [C.elegans] ESTs, Weakly similar to KIAA0971 protein [H.sapiens] ESTs ESTs ESTs, Weakly similar to Sid1669p
1263 1595 1264 1512 1265 4716 1266 1524 1267 2432 1268 1617	55 A 22 A 6 A 46 A	N232294 N232303 N232313	u,bb, General		protein [H.sapiens] ESTs ESTs, Weakly similar to Sid1669p
1263 1595 1264 1512 1265 4716 1266 1524 1267 2432 1268 1617	55 A 22 A 6 A 46 A	N232294 N232303 N232313	u,bb, General		ESTs ESTs, Weakly similar to Sid1669p
1264 1512 1265 4716 1266 1524 1267 2432 1268 1617	22 A 6 A 46 A	.1232294 .1232303 .1232313	General		ESTs, Weakly similar to Sid1669p
1264 1512 1265 4716 1266 1524 1267 2432 1268 1617	22 A 6 A 46 A	N232303 N232313			ESTs, Weakly similar to Sid1669p
1265 4716 1266 1524 1267 2432 1268 1617	6 A	1232313	у		
1265 4716 1266 1524 1267 2432 1268 1617	6 A	1232313	У		tra a management
1266 1524 1267 2432 1268 1617	46 A			audamia sassatas DOV	[M.musculus] purinergic receptor P2X, ligand-gated
1266 1524 1267 2432 1268 1617	46 A			purinergic receptor P2X,	lion channel 4
1267 2432 1268 1617			<u>y</u>	ligand-gated ion channel 4	ESTs
1268 1617	<u> </u>		t,u o	Stromal cell-derived factor 1	Stromal cell-derived factor 1
		1232340	0	Stromai cell-derived factor i	ESTs, Weakly similar to
	72	1232341	d		KD PROTEIN C13B9.2 IN CHROMOSOME III [C.elegans]
1209	· - 1· ·		h		ESTs
	<del>'' -                                  </del>	11232340	11	Platelet-derived growth	Platelet-derived growth factor receptor
1270 1928	87 A	.1232379	f	factor receptor alpha	alpha ESTs, Weakly similar to FMO1 RAT
	i				DIMETHYLANILINE
1271 5601		.1232461	n.General		MONOOXYGENASE [R.norvegicus]
12/1   3001	<u>'                                    </u>	1232401	II,Oeneral		ESTs, Weakly similar to PIR1
1272 1405	51 A	1232489	l.m		[H.sapiens]
1272 11700	<del>51                                      </del>	11202403	·,		ESTs, Moderately similar to A27340
1273 5572	2 4	.1232490	i,t	1	complement C7 precursor [H.sapiens]
1274 1115			CC	<del></del>	ESTs
					ESTs, Weakly similar to DnaJ
1275 8709	9	1232534	0		homolog 2 [R.norvegicus]
1276 2035			j.v,y		EST
1277 1406			8		ESTs
1278 4440			w		ESTs
			•		ESTs, Weakly similar to putative peroxisomal 2,4-dienoyl-CoA
1279 1769	-	1232784	е		reductase [R.norvegicus]
1280 1579		1232874	v General	<del> </del>	ESTS
1281 1246	<del></del>		General	<del> </del>	COT-
1282   1287		1232984 1233031	•		ESTs
1283 5355	<u>~  ^</u>	11233V3 I	<u> </u>		ESTs, Moderately similar to MHC
1284 1879	94 A	1233121	c		class I [M.musculus]  ESTs, Weakly similar to nuclear RNA
1285 3823	3 A	1233147	b,g, General c.k,		helicase [R.norvegicus]
1286 1196	67 /	1233155	General		ESTs
1287 1156		1233182	d		ESTs
1201 1130	·· /*	11233 102			ESTs, Highly similar to PM1 HUMAN
1288 347	1 A	1233183	9		PROTEIN PM [H.sapiens] ESTs. Weakly similar to T15919
1289 2194	M8	N233191	i		hypothetical protein EEED8.9 - Caenorhabditis elegans (C.elegans)
1289 2194			0.0.4		ESTs
1230 133	- A	11233 134	g.p.y	<del>                                     </del>	ESTs, Highly similar to Bodenin
1291 1555	52 A	N233195	у		[M.musculus] Rattus norvegicus epidermal growth
	107	N233224	bb		factor receptor related protein (Errp)
1292 1790			ČC .		ESTs .

TABLE 1: S					"Alfy: Docket No. 44521-5039W . A Dock No. 1793597.
Condition (	Mentiller.	Conemit Ace (*) Ref. Scol	Modal <sup>#</sup>	Gene Namo	Unigono Cluster VIIIo
					ESTs, Weakly similar to T24956 hypothetical protein T16G1.10 -
1294	12894	AI233365	d		Caenorhabditis elegans [C.elegans] ESTs, Weakly similar to S44853
295	7161	AI233407	General		K12H4.3 protein - Caenorhabditis elegans [C.elegans]
1296	15906	AI233425	9		ESTs
297	14120	AI233433	d		ESTs
1298	14095	AI233468	a,d	<del></del>	ESTs
					ESTs, Weakly similar to 138079 OXA
1299	3075	AI233494	u,aa		homolog [H.sapiens]
300	6046	AI233530	General		ESTs PSD8_HUMAN 26S PROTEASOME
1301	18900	A1233570	General		REGULATORY SUBUNIT S14 [H.sapiens]
			0	HHs:arginyl-tRNA	ESTs, Moderately similar to SYR_HUMAN ARGINYL-TRNA
1302	7888	AI233583	General	synthetase Adenosin kinase	SYNTHETASE [H.sapiens] Adenosin kinase
1303	16709	A1233602	General	Agenosiii kinase	PAUGINIST IN ITS BESTS, Highly similar to P2CD_MOUSE PROTEIN PHOSPHATASE 2C DELTA ISOFORM (PP2C-DELTA) (P53-INDUCED PROTEIN PHOSPHATASE IN (PROTEIN PHOSPHATASE MAGNESIUM-DEPENDENT 1
1304	5163	AI233712	у		DELTA) [M.musculus]  ESTs, Moderately similar to ERHUAH
1305	7243	AI233717	General		coatomer complex alpha chain homolog [H.sapiens]
1306	3816	AI233729	9		ESTs, Highly similar to PSD5_HUMAN 26S PROTEASOME SUBUNIT S5B [H.sapiens]
1307	13023	AI233740	d,h, General		ESTs, Weakly similar to ALDR RAT ALDOSE REDUCTASE [R.norvegicus]
1308	14871	AI233743	9		ESTs
	14071	71200140	9		ESTs, Highly similar to Gene product with similarity to KIAA0154
1309	7469	AI233767	cc	*	[H.sapiens]
1310	7804	Al233771	b		ESTs ESTs, Weakly similar to T24413
1311	13563	A1233773			hypothetical protein T04A11.2 - Caenomabditis elegans [C.elegans]
1312	2154	AI233818	k,cc		ESTs
		AI233616 AI234079	h		ESTs
1313	16616	CIZO4018	a,d,		
1314	13393	AI234100	General	cysteine rich protein	cysteine rich protein
1315	7071	AI234162	r		ESTs
1316	14677	AI234620	General	<del>                                     </del>	ESTs, Weakly similar to transcription
1317	4443	A1234629	m b		factor C1 [M.musculus] ESTs
1318	22453	AI234678			ESTS
1319	23964	A1234748	t,General		IEST
1320	19581	A1234753	<del>                                     </del>		1501
1321 -	22152	AI234822	o,General	DEXRAS1 (Dexras1)	DEXRAS1 (Dexras1) ESTs, Weakly similar to S12207
1322	18942	A1234865	d	ATPase, H+ transporting,	hypothetical protein [M.musculus]
1222	22662	A1234030	22	lysosomal (vacuolar proton pump), subun	ATPase, H+ transporting, lysosomal (vacuolar proton pump), subunit 1
1323	22662	AI234939	aa	punip), subun	ESTs, Highly similar to CB80_HUMA 80 KDA NUCLEAR CAP BINDING
1324	3875	AI235047	o,General		PROTEIN (H.sapiens)

TABLE 1: 8	BUMMARY				. Ally, Docket No. 44921-503900 Doc. No. 1793897
Scquence ID No.	lieniiler	Consort Ace	Modal Code	Cong Nerro	Unigina Cluster Tilla
					ESTs, Highly similar to ABF2_HUMA ATP-BINDING CASSETTE, SUB- FAMILY F, MEMBER 2 (IRON INHIBITED ABC TRANSPORTER 2)
1326	14906	Al235192	9		[H.sapiens]
1327	14718	AI235210	е		ESTs
1328	15004	AI235224	b,General		Rattus norvegicus tissue inhibitor of metalloproteinase-1 (TIMP1), mRNA complete cds
1329	6632	AI235277	v		ESTs
1330	14722	AI235284	x,z		ESTs, Weakly similar to single-pass transmembrane protein [R.norvegicu
1004	4460	A1025505	u.General	ļ	Rat mRNA for preprocathepsin D (E0 3.4.23.5)
1331 1332	1462 21061	AI235585 AI235631	I,m		ESTs
1002	21001	AIZOOOT	1		
1333	14665	AI235646	m	MAD homolog 4 (Drosophila)	MAD homolog 4 (Drosophila) ESTs, Moderately similar to pescadill
1334	19940	AI235689	General		[H.sapiens]
1335	5698	AI235692	u		ESTs ESTs, Highly similar to NID2 MOUSE NIDOGEN-2 PRECURSOR
1336	23745	AI235732	k		[M.musculus] ESTs, Moderately similar to A56716
1337	11164	AI235739	General		aromatic ester hydrolase [H.saplens]
338	5212	AI235745	d		ESTs
339	14768	Al235912	h		ESTs, Weakly similar to hypothetical protein [H.sapiens]
340	14776	AI235950	m		ESTs
1341	3091	AI236027	n,General		ESTs
342	14861	AI236045	٢		ESTs
343	14862	AI236048	θ		EST
1344	16943	AI236097	р		ESTs, Highly similar to E25B protein [M.musculus] ESTs, Highly similar to JC7107
1345	8336	AI236101			development related unidentified 27h protein - mouse [M.musculus]
1346	23230	AI236146	v		ESTs
1347	22855	AI236150	е		ESTs, Highly similar to JC7301 Down syndrome critical region protein 5 alpha [H.sapiens]
1348	14594	AI236152	i	<del> </del>	ESTs
1349	18406	Al236168	r		ESTs
	15051	A1236332	General		ESTs, Highly similar to ATDA MOUS DIAMINE ACETYLTRANSFERASE [M.musculus]
	19298	AI236338	bb		ESTs, Weakly similar to NHPX RAT NHP2/RS6 FAMILY PROTEIN YEL026W HOMOLOG [R.norvegicus
1351	19296	A1230336		siah binding protein 1; FBP	siah binding protein 1; FBP interactir repressor; pyrimidine tract binding splicing factor; Ro ribonucleoprotein
1352	10667	Al236366	b	interacting repressor; pyrimidine tr	binding protein 1
1353	10774	Al236397	f		ESTs
1354	9407	AI236402	aa		ESTs Rattus norvegicus retinol dehydrogenase type II mRNA,
1355	26335	A1236460	General		complete cds
356	17950	A1236590	t,General		ESTS
1357	18259	AI236601	h,v		ESTs
1358	11445	AI236613	j.y		ESTs ESTs, Highly similar to SCF complex
1359	17248	AI236635	o,aa		protein Skp1 [M.musculus]
1360	16859	AI236753	t,General		ESTs

TABLE 1: S					Ally, Docket No. 44921-5039W6 Doc. No. 1793397,
Sequence ID No.	i Manifiar	GenDank Accelt. Roll Seq ID	Modoi Godo	Cone Name	Walione Quescor Ville
1361	5208	AI236754	g		ESTs, Weakly similar to hT41 [H.saplens]
1362	24388	AI236772	e,General		ESTs
1363	15850	AI236795	n,v,w		ESTS, ESTS, Highly similar to HS9B RAT HEAT SHOCK PROTEIN HSP 90-BETA [R.norvegicus]
1364	14800	AI236856	W		ESTs
1366	11404	AI237002	m	spermidine synthase	spermidine synthase
1367	18151	AI237212	o,General		ESTs, Highly similar to hepatitis B virus X interacting protein [H.sapiens]
1368	21653	AI237535	t,General	estrogen-responsive uterine transcript	estrogen-responsive uterine transcript
1369	11208	AI237586	z		ESTs, Moderately similar to INIB RAT INTERFERON-INDUCIBLE PROTEIN [R.norvegicus]
1370	21893	AI237713	i,k,aa		ESTs, Moderately similar to Y101_HUMAN HYPOTHETICAL PROTEIN KIAA0101 [H.sapiens]
1371	14842	AI237713	r,n,aa		IESTs
1371	14042	A1237724			ESTs, Moderately similar to MXI1 RAT MAX INTERACTING PROTEIN 1
1372	3467	AI237835	General		[R.norvegicus]
1373	25840	Al638972	<u>ט</u>		
1374	17108	AI639017	n		ESTs, Highly similar to G9A [M.musculus]
				mini chromosome maintenance deficient 6 (S.	mini chromosome maintenance
1375	16676	AI639082	c,k,x	cerevisiae)	deficient 6 (S. cerevisiae)
1376	12400	A1639107	k		ESTs
1377	19952	Al639108	q,v		ESTs
1379	25907	A1639167	0,W		ESTs ESTs, Highly similar to T46480 hypothetical protein
1381	18533	AI639231	n		DKFZp434L1850.1 [H.sapiens]
1382	18353	Al639233	t,aa	decorin	decorin
1384	15330	AI639285	General		ESTs
1385	20026	AI639354	9		EST
1386	25971	Al639365	r		
1388	19152	AI639387	u,General		ESTs Medarataly similar to CAOC
. 1390	18338	Al639422	v		ESTs, Moderately similar to CAQC RAT CALSEQUESTRIN, CARDIAC MUSCLE ISOFORM PRECURSOR [R.norvegicus]
1392	20082	AI639488	i,m		EST, Highly similar to A42772 mdm2 protein - rat [R.norvegicus]
1002	20002	711000100	a.bb,	,	ESTs, Weakly similar to T13607 hypothetical protein EG:87B1.3 - fruit
1394	20056	A1639504	General		fly [D.melanogaster] ESTs, Highly similar to
1395	4713	Al639518	9		RPB8_HUMAN DNA-DIRECTED RNA POLYMERASES I, II, AND III 17.1 KD POLYPEPTIDE [H.sapiens]
1396	14332	AJ001044	bb	protein phosphatase 1, regulatory (inhibitor) subunit 5	protein phosphatase 1, regulatory (inhibitor) subunit 5
1397	7602	AJ001929	k	reticulocalbin	reticulocalbin Rattus norvegicus mRNA for
1398	9867	AJ005424	u		BMK1/ERK5 protein, partial
1400	16351	AJ011811	General	claudin 7	claudin 7
1401	20116	AJ011969	I,General	growth differentiation factor 15	growth differentiation factor 15
	1	l			Rattus norvegicus mRNA for
1402	17635	AJ223355	v,w		mitochondrial dicarboxylate carrier

Table 1: 8	: :		7		" Aliy, Docket No. 44921-503900 Doc. No. 1793297.
Sequence ID No. (4)	ldeniiler	GenBenkiace Roi, Scolle	Model Gode	Gene Neino P	Unitana Chatar Tilla.
					Rat mRNA for delta3, delta2-enoyl-
				dodecenoyl-Coenzyme A	CoA isomerase,dodecenoyl-
		A		delta isomerase (3,2 trans-	Coenzyme A delta isomerase (3,2
1403	18686	D00729	q	enoyl-Coenyme A	trans-enoyl-Coenyme A isomerase)
4404	5040	040055	<b>.</b>	dihydrolipoamide	dihydrolipoamide acetyltransferase
1404 1405	5049 25257	D10655 D13623	n,w_	acetyltransferase	dinydronpoarnide acetyltransierase
1405	15281	D13623	h		ESTs
1406	11434	D14014	cc		ESTs
1100	11101	J.1011	-		Rat mRNA for testicular dynamin,
1407	1613	D14076	x		complete cds
1408	1728	D16479	q	HHs:hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl- Coenzyme A thiolase/enoyl- Coenzyme A hydratase (trifunctional protein), beta subunit	Rat mRNA for mitochondrial long- chain 3-ketoacyl-CoA thiolase beta- subunit of mitochondrial trifunctional protein, complete dds
					Rat mRNA for polyubiquitin (four repetitive ubiquitins in tandem),
1409	3015	D16554	c,s,v,z		complete cds R.norvegicus mRNA for chloride
1410	472	D26111	d,s,bb		channel (putative) 2313bp
					Rattus norvegicus mRNA for alphaB
1412	16233	D29960	j,l		crystallin-related protein, complete co
					ESTs, Highly similar to PRC6 RAT
					PROTEASOME SUBUNIT RC6-1
1413	9029	D30804	n		[R.norvegicus]
					Rattus norvegicus tyrosine phosphatase-like protein IA-2a mRNA
1414	1485	D38222	y,z		ipartial cds
1414	1403	036222	y, <u>z</u>		ESTs, Highly similar to PRCE RAT
				proteasome beta type	PROTEASOME EPSILON CHAIN
1415	9135	D45247	s	subunit 5	PRECURSOR [R.norvegicus]
					Rattus norvegicus mRNA for
				HHs:mercaptopyruvate	mercaptopyruvate sulfurtransferase,
1416	16354	D50564	U	sulfurtransferase	complete cds
					Rattus norvegicus mRNA for
			l	l .	proteasomal ATPase (Tat-binding
1417	1884 .	D50695	I,m,bb	Colute coming family 4 Ad	protein7), complete cds Solute carrier family 1 A1 (brain
1418	21147	D63772	General	Solute carrier family 1 A1 (brain glutamate transporter)	glutamate transporter)
	21147	003772		HHs:CDP-diacylglycerol- inositol 3- phosphatidyltransferase (phosphatidylinositol	Rat mRNA for phosphatidylinositol
1419	826	D82928	f	synthase)	synthase, complete cds
1420	25306	D84485	U		
1421	18867	D88250	t		Rattus norvegicus mRNA for serine protease, complete cds
			r,v,	1	
1423	22543	H31117	General		EST
1424	12360	H31456	w h,j		ESTs ESTs
1425	20514	H31489			ESTs, Highly similar to mtprd
1426	11358	H31610	bb.		[M.musculus] ESTs, Moderately similar to T14781 hypothetical protein
1427	4360	H31813	General		DKFZp586B1621.1 [H.sapiens]
					ESTs, Moderately similar to COF1 RAT COFILIN, NON-MUSCLE
1428	9343	H32169	I		ISOFORM [R.norvegicus]
1429	4386	H33093	h,w	<del> </del>	EST
1430	4415	H33636	h	L	ESTs

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TABLE 18 S	UMMARY	4.5	View N	- 3	Ally: Docket No. 44221-5089W0
Sequenco (D No. 14. a	licentiter	Concential Cod Ref. Sog ID	Model    Code	Gene Marge	Unigeno Gusior Tillo
1431	15374	H34186	1		ESTs, Highty similar to IF39_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 9 [H.sapiens]
1432	17159	J00797	u,General	alpha-tubulin	alpha-tubulin
1433	16260	J01878	f		Rat brain-specific identifier sequence RNA, clone p1b224
1434	17284	J02827	bb	Branched chain alpha- ketoacid dehydrogenase subunit E1 alpha	Branched chain alpha-ketoacid dehydrogenase subunit E1 alpha
1435	15017	J03752	n		Rat glutathione S-transferase mRNA, complete cds
				Thyroid hormone receptor, beta (avian erythroblastic leukemia viral (v-erb-a)	Thyroid hormone receptor, beta (avian erythroblastic leukemia viral (v-erb-a)
1436	44	J03819	e,r,	oncogene homolog 2) Glutathione-S-transferase,	oncogene homolog 2) Glutathione-S-transferase, mu type 2
1437	21014	J03914	General	mu type 2 (Yb2) Steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5	(Yb2) Steroid-5-alpha-reductase, alpha
1438	20429	J05035	1	alpha-steroid delta 4- dehydrogenase alpha 1) Glutamylcysteine gamma	polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1) Giutamylcysteine gamma synthetase
1439	1247	J05181	j,l,m,s,y,z n.u.	synthetase light chain	light chain Rat inositol-1,4,5-triphosphate
1440	10464	J05510	General_	receptor type 1	receptor mRNA, complete cds
1441	20149	K03243	9		
1442	17758	K03249	q		Rat peroxisomal enoyl-CoA: hydrotase-3-hydroxyacyl-CoA bifunctional enzyme mRNA, complete cds
1443	381	L00124	w	Elastase 2, pancreatic	Elastase 2, pancreatic
1444	2048	L00382	k,x		
1445	10500	L14002	p		Rattus norvegicus clone 15 polymeric immunoglobulin receptor mRNA, 3'UTR microsatellite repeats
1448	25366	L14003	t		Rattus norvegicus clone 15 polymeric immunoglobulin receptor mRNA,
1449 1450	109 20414	L14004 L14323	c,p General	Phospholipase C-beta1	3'UTR microsatellite repeats Phospholipase C-beta1
1451	25369	L14937	у		
1452	16119	L16532	k	2',3'- Cyclic nucleotide 3'- phosphodiesterase	2',3'- Cyclic nucleotide 3'- phosphodiesterase
1453	12058	L25387 L25387	h		ESTs, Highly similar to A53047 6- phosphofructokinase [R.norvegicus]
1455	21146	L35558	General	Solute carrier family 1 A1 (brain glutamate transporter)	Solute carrier family 1 A1 (brain glutamate transporter) Rattus norvegicus guanylyl cyclase
1456	106	L37203	w		(GC-D) mRNA, complete cds Rattus norvegicus serine protease
1458 1459	13682 6405	L38482 L38615	f,j,k,m,z p	Glutathione synthetase gene	gene, complete cds Glutathione synthetase gene
1461	15189	M11794	n,v	Civiaunono symmetase gana	Ciamanono dynanotada gono
1462	17086	M13011	)		Rat c-ras-H-1 gene, complete cds Rat insulin-like growth factor-I mRNA,
1464	21053	M15481	0		3' end
1465	25405	M18330	j,t		
1466	25415	M19648	a		
1468	14967	M22366	w	Propionyl Coenzyme A carboxylase, alpha	
1469	20481	M22631	bb	polypeptide	<u> </u>

TABLE 1: 8		The state of the s		N. W. W.	AM). Docket No. 44924-5939000 Doc. No. 1793337.
		Condent Accessor Rel Scolo		Cono Namo	Des te, 1726es Unifrana Gluster Tille
				HHs:ubiquinol-cytochrome c reductase, Rieske iron-sulfur	Rat Rieske iron-sulfur protein mRNA,
1471	15048	M24542	q	polypeptide 1	Rat cytochrome P-450 isozyme 5
1472	20921	M29853	m	Cytochrome P450, an	(P450 IVB2) mRNA, complete cds
1473	1224	M31931	u .	olfactory-specific steroid hydroxylase	Cytochrome P450, an olfactory- specific steroid hydroxylase
1474	15579	M33648	q	×	Rat mitochondrial 3-hydroxy-3- methylglutaryl-CoA synthase mRNA, complete cds
1474	15580	M33648	q		Rat mitochondrial 3-hydroxy-3- methylglutaryl-CoA synthase mRNA, complete cds
1475	17211	M34331	g,n,q,v		ESTs, Weakly similar to KRAB-zinc finger protein KZF-1 [R.norvegicus]
1476	20699	M35601	b,x,bb		Rat alpha-fibringgen mRNA, 3' end
1476	20700	M35601	b,t,bb		Rat alpha-fibrinogen mRNA, 3' end
1477	9223	M36151	0		Rat mRNA for MHC class II antigen RT1.B-1 beta-chain,Rattus norvegicus MHC class II antigen RT1.B beta chain mRNA, partial cds
1479	1585	M57728	j,m,y		Rat general mitochondrial matrix processing protease (MPP) mRNA, 3' end
1480	24844	M58040	C	transferrin receptor	transferrin receptor
1481	25057	M58495	h		
1482	457	M60666	d,General	Tropomyosin 1 (alpha)	Tropomyosin 1 (alpha) Rat cystatin S (CysS) gene, complete
1483	1223	M75281	f	P-glycoprotein/multidrug	cds
1484	5733	M81855	i,k,aa	resistance 1	P-glycoprotein/multidrug resistance 1
1485	4198	M83143	m		Rat beta-galactoside-alpha 2,6- sialyltransferase mRNA Rat beta-galactoside-alpha 2,6-
1485	4199	M83143	m		sialyltransferase mRNA
1486	24651	M83678	k,x,z	RAB13	RAB13
1487	1430	M84648	General	Dopa decarboxylase (aromatic L-amino acid decarboxylase)	Dopa decarboxylase (aromatic L- amino acid decarboxylase)
1488	25467	M93297	С	ornithine aminotransferase	omithine aminotransferase
1489	729	M95762	a.y		Rattus norvegicus GABA transporter GAT-2 mRNA, complete cds
1490	23698	NM 012489	q	Rattus norvegicus Acetyl- CoA acyltransferase, 3-oxo acyl-CoA thiolase A, peroxisomal (Acaa), mRNA. Length = 1619	Acetyi-CoA acyltransferase, 3-oxo acyl-CoA thiolase A, peroxisomal
	-			Rattus norvegicus Acetyl- CoA acyltransferase, 3-oxo acyl-CoA thiolase A, peroxisomal (Acaa), mRNA.	Acetyl-CoA acyltransferase, 3-oxo
1490	23699	NM_012489	q	Length = 1619	acyl-CoA thiolase A, peroxisomal
4404	7060	NIM 040405		Rattus norvegicus Aldolase A, fructose-bisphosphate (Aldoa), mRNA. Length =	Aldolaco A faisteon bio-boombets
1491	15511	NM_012495	g u	1442 Rattus norvegicus Aldehyde reductase 1 (low Km aldose reductase) (5.8 kb Pstl fragment, probably the functional gene) (Akr1b1), mRNA. Length = 1339	Aldehyde reductase 1 (low Km aldose reductase) (5.8 kb Pstl fragment, probably the functional gene)

TADLE (: S					, (Ally, Docket No. 44921-51191) Doc. No. 1799997.
enica Englianco Englianco	ldentiter	GinBank Ace Roll Scolls	Model Godo	Cone Namo	Unijene Greter ville
1494	7427	NM_012515	General	Rattus norvegicus Benzodiazepin receptor (peripheral) (Bzrp), mRNA. Length = 781	Benzodiazepin receptor (peripheral)
1495	24433	NM_012527		Rettus norvegicus Cholinergic receptor, muscarinic 3 (Chrm3), mRNA. Length = 3578	Cholinergic receptor, muscarinic 3
1496	4467	NM_012529	d	Rattus norvegicus Creatine kinase, brain (Ckb), mRNA. Length = 1146 Rattus norvegicus	Creatine kinase, brain
1497	16520	NM_012532	General	Ceruloplasmin (ferroxidase) (Cp), mRNA. Length = 3700 Rattus norvegicus	Ceruloplasmin (ferroxidase)
1498	225	NM_012544	x,z	Angiotensin I-converting enzyme (Dipeptidyl carboxypeptidase 1) (Ace), mRNA. Length = 4142	Dipeptidyl carboxypeptidase 1 (Angiotensin I-converting enzyme)
1499	1431	NM 012545	General	Rattus norvegicus Dopa decarboxylase (aromatic L- amino acid decarboxylase) ((Ddc), mRNA. Length = 1954	Dopa decarboxylase (aromatic L- amino acid decarboxylase)
1500	23868	NM_012551	l,m,v, General	Rattus norvegicus Early growth response 1 (Egr1), mRNA. Length = 3112	Early growth response 1
1500	23872	NM_012551	l,v,cc, General	Rattus norvegicus Early growth response 1 (Egr1), mRNA. Length = 3112 Rattus norvegicus Early	Early growth response 1
1500	23869	NM_012551	v,General	growth response 1 (Egr1), mRNA. Length = 3112 Rattus norvegicus Enolase	Early growth response 1
1501	19407	NM_012554	z	1, alpha (Eno1), mRNA. Length = 1725 Rattus norvegicus Enolase	Enolase 1, alpha
1501	19408	NM_012554	n,s,y,z	1, alpha (Eno1), mRNA. Length = 1725 Rattus norvegicus Ets avian erythroblastosis virus E2 oncogene homolog 1 (tumor	Enolase 1, alpha  Ets avian erythroblastosis virus E2
1502	21836	NM_012555	k	progression locus 1) (Ets1), mRNA. Length = 4991 Rattus norvegicus Fructose-	oncogene homolog 1 (tumor progression locus 1)
1503	16895	NM_012558	g,s	1,6- biphosphalase (Fbp1), mRNA. Length = 1357 Rattus norvegicus	Fructose-1,6- biphosphatase
1504	25317	NM_012559	bb	Fibrinogen, gamma polypeptide (Fgg), mRNA. Length = 1358 Rattus norvegicus	
1504	6477	NM_012559	b,bb	Fibrinogen, gamma polypeptide (Fgg), mRNA. Length = 1358 Rattus norvegicus	Fibrinogen, gamma polypeptide
1504	6478	NM_012559	bb	Fibrinogen, gamma polypeptide (Fgg), mRNA. Length = 1358	Fibrinogen, gamma polypeptide
1505	11731	NM_012561	k	Rattus norvegicus Follistatin (Fst), mRNA. Length = 1035 Rattus norvegicus Group- specific component (vitamin	Follistatin
1507	4254	NM_012564	ə	D-binding protein) (Gc), mRNA. Length = 1676	Group-specific component (vitamin D binding protein)

TABLE 1: S	WIMMARY		是不能		
Sequence :	ldentifer.	GenBent Accil Rol SeqlD	Mocod Godo	Gama Manna	Doc. No. 1799997.1 Uniterno Civeter Titto
1508	16026	NM_012578	г	Rattus norvegicus Histone H1-0 (H1f0), mRNA. Length = 1779	Histone H1-0
1508	16024	NM_012578	r	Rattus norvegicus Histone H1-0 (H1f0), mRNA. Length = 1779	Histone H1-0
1508	16025	NM_012578	r	Rattus norvegicus Histone H1-0 (H1f0), mRNA. Length = 1779 Rattus norvegicus Heme	Histone H1-0
1509	16080	NM_012580	g,m	oxygenase (Hmox1), mRNA. Length = 870 Rattus norvegicus Insulin-	Heme oxygenase
1510	15098	NM_012588	bb	like growth factor-binding protein (IGF-BP3) (Igfbp3), mRNA. Length = 2352	Insulin-like growth factor-binding protein (IGF-BP3)
1511	4450	 NM_012592	bb	Rattus norvegicus Isovaleryl Coenzyme A dehydrogenase (Ivd), mRNA. Length = 2104	Isovaleryl Coenzyme A dehydrogenase
1511	4451	NM_012592	i,bb	Rattus norvegicus Isovaleryl Coenzyme A dehydrogenase (Ivd), mRNA. Length = 2104	Isovaleryl Coenzyme A dehydrogenase
1511	4452	NM_012592	bb	Rattus norvegicus Isovaleryl Coenzyme A dehydrogenase (Ivd), mRNA. Length = 2104	Isovaleryi Coenzyme A dehydrogenase
1512	17198	NM_012593	a,x	Rattus norvegicus Kallikrein 1, renal/pancreas/salivary (Klk1), mRNA. Length = 786 Rattus norvegicus Kallikrein	Kallikrein 1, renal/pancreas/salivary
1512	17197	NM_012593	x	1, renal/pancreas/salivary (Klk1), mRNA. Length = 786 Rattus norvegicus Malic	Kallikrein 1, renal/pancreas/salivary
1513	18749	NM_012600	a,h	enzyme 1, soluble (Me1), mRNA. Length = 1761	Matic enzyme 1, soluble
	0000	ANA 040000	Caracal	Rattus norvegicus Avian myelocytomatosis viral (v- myc) oncogene homolog	Avian myelocytomatosis viral (v-myc)
1514	2628	NM_012603	General	(Myc), mRNA. Length = 2168 Rattus norvegicus Avian myelocytomatosis viral (v-	oncogene monolog
1514	2629	NM_012603	x,General	myc) oncogene homolog (Myc), mRNA. Length = 2168 Rattus norvegicus	Avian myelocytomatosis viral (v-myc) oncogene homolog
				Membrane metallo- endopeptidase (neutral endopeptidase/enkephalinas e) (Mme), mRNA. Length =	Membrane metallo-endopeptidase (neutral
1515	16849	NM_012608	n,o,q	3243 Rattus norvegicus serine (or cysteine) proteinase	endopeptidase/enkephalinase)
		·		inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1 (Serpine1), mRNA. Length =	
1517	15540	NM_012620	General	3053 Rattus norvegicus Prolactin receptor (Prir), mRNA.	Plasminogen activator Inhibitor
1518	24568	NM_012630	General	Length = 1635 Rattus norvegicus Prolactin receptor (Prir), mRNA.	Protactin receptor
1518	24566	NM_012630	General	Length = 1635	Prolactin receptor

					AATIY, Docket No. 44921-5000000 Doc. No. 1790907.1
Sequence ID No. 154	Manifer.	ConBerli Acel Rel Seqle	Model Code	Gene Keine	Wingara Gluster Vitte
1519	18553	NM_012631	k	Rattus norvegicus Prion protein, structural (Pmp), mRNA. Length = 765 Rattus norvegicus protein tyrosine phosphatase, non-	Prion protein, structural
1520	1844	NM_012637	General	receptor type 1 (Ptpn1), mRNA. Length = 4127	ESTs, Protein-tyrosine phosphatase
1521	24668	NM_012642	1	Rattus norvegicus Renin (Ren), mRNA. Length = 1059	Renin
1522	18632	NM_012645	a	Rattus norvegicus RT1 class ib gene (RT1Aw2), mRNA. Length = 1540	RT1 class lb gene
1523	25435	NM_012647	9	Rattus norvegicus Sodium channel, voltage-gated, type II, alpha polypeptide (Scn2a1), mRNA. Length = 8553	
1524	9423	NM_012649	b,cc	Rattus norvegicus Ryudocan/syndecan 4 (Sdc4), mRNA. Length = 2462	Ryudocan/syndecan 4
1525	24496	NM 012654	n	Rattus norvegicus Solute carrier family 9 (sodium/hydrogen exchanger 3), antiporter 3, Na+/H+ (amiloride insensitive) (Slc9a3), mRNA. Length = 5153	Solute carrier family 9 (sodium/hydrogen exchanger 3), antiporter 3, Na+/H+ (amiloride insensitive)
1526	7101	NM_012679	x,bb, General	Rattus norvegicus Clusterin (Clu), mRNA. Length = 1638	Testostrone-repressed prostate message 2
1527	24707	NM_012693	i	Rattus norvegicus Cytochrome P450 IIA2 (Cyp2a2), mRNA. Length = 2259	Cytochrome P450 IIA2
1528	1850	NM 012696	i i	Rattus norvegicus T- kininogen, see also D11Elh1 and D11Mit8 (Kng), mRNA. Length = 1417	T-kininogen
1528	1854	NM 012696	t	Rattus norvegicus T- kininogen, see also D11Elh1 and D11Mit8 (Kng), mRNA. Length = 1417	K-kininogen, differential splicing leads to HMW Kngk,T-kininogen
1529	1603	NM_012697	General	Rattus norvegicus Organic cation transporter (Sic22a1), mRNA. Length = 1882 Rattus norvegicus	Organic cation transporter
1530	1372	NM_012734	U	Hexokinase 1 (Hk1), mRNA. Length = 3653	Hexokinase 1
1531	1478	NM_012744	bb, General	Rattus norvegicus Pyruvate carboxylase (Pc), mRNA. Length = 3945 Rattus norvegicus Signat	Pyruvate carboxylase
1532	343	NM_012747	h,t_	transducer and activator of transcription 3 (Stat3), mRNA. Length = 2924	Signal transducer and activator of transcription 3
1533	8829	NM_012749	General	Rattus norvegicus Nucleolin (NcI), mRNA. Length = 2142 Rattus norvegicus CD24	Nucleolin
1534	20828	NM_012752	General	antigen (Cd24), mRNA. Length = 1703 Rattus norvegicus CD24	CD24 antigen
1534	20829	NM_012752	i,General	antigen (Cd24), mRNA. Length = 1703	CD24 antigen

TABUES: 8	WIMARY	A SERVICE			Ally, Docket No. 44921-593900 . Doc. No. 1793397.1
Sequence ID No. 48	l dentiler	ConBent Ace Rol Soglo (4)	Model Godo	Como Natio	Unizano Civeter Tillo
1534	20830	NM_012752	i,General	Rattus norvegicus CD24 antigen (Cd24), mRNA. Length = 1703	CD24 antigen
				Rattus norvegicus Insulin- like growth factor 2 receptor (Igf2r), mRNA. Length =	
1535	15174	NM_012756	b	8810 Rattus norvegicus Lost on	Insulin-like growth factor 2 receptor
1536	21685	NM_012760	j,m,n	transformation 1 (Lot1), mRNA. Length = 5028 Rattus norvegicus Interleukin	Lost on transformation 1
1537	18068	NM 012762	t	1beta converting enzyme (Casp1), mRNA. Length = 1209	Interleukin 1beta converting enzyme
1538	1246	NM 012770	a,General	Rattus norvegicus Guanylate cyclase, soluble, beta 2 (GTP pyrophosphate - lyase) (Gucy1b2), mRNA. Length = 2335	
1539	1348	NM_012776	ſ	Rattus norvegicus adrenergic receptor kinase, beta 1 (Adrbk1), mRNA. Length = 2683	G-protein-linked receptor kinase (beta adrenergic receptor kinase 1)
1540	18135	NM_012791	w	Rattus norvegicus dual- specificity tyrosine-(Y)- phosphorylation regulated kinase 1a (Dyrk1a), mRNA. Length = 2840	Dual Specificity Yak1-related kinase.ESTs
1541	16947	NM_012793	p,bb	Rattus norvegicus Guanidinoacetate methyltransferase (Gamt), mRNA. Length = 924	Guanidinoacetate methyltransferase
				Rattus norvegicus glutathione S-transferase, theta 2 (Gstt2), mRNA.	
1542	960	NM_012796	u	Length = 1258 Rattus norvegicus MAL protein gene (Mal), mRNA.	glutathione S-transferase, theta 2
1543	260	NM_012798	f,u ·	Length = 2268 Rattus norvegicus Protein C	MAL protein gene
1544	556	NM_012803	d	(Proc), mRNA. Length = 1543	Protein C
1545	21729	NM_012804		Rattus norvegicus ATP- binding cassette, sub-family D (ALD), member 3 (Abcd3), mRNA. Length = 3324	ATP-binding cassette, sub-family D (ALD), member 3
1545	21125	14W 012004	g	Rattus norvegicus alpha- methylacyl-CoA racemase (Amacr), mRNA. Length =	(VED), Mainson
1546	15032	NM_012816	General	Rattus norvegicus Insulin-	Methylacyl-CoA racemase alpha
1547	24895	NM_012817	General	like growth factor-binding protein 5 (Igfbp5), mRNA. Length = 1630	Insulin-like growth factor-binding protein 5
1548	18109	NM_012823	u,General		ESTs, Weakly similar to LURT3 annexin III - rat [R.norvegicus]
1549	373	NM_012833	h,i,q, General	Rattus norvegicus ATP- binding cassette, sub-family C (CFTR/MRP), member 2 (Abcc2), mRNA, Length = 4918	Canalicular multispecific organic anion transporter
1550	2855	NM_012838	е	Rattus norvegicus Cystatin beta (Cstb), mRNA. Length = 590	

VADUE 0: 8	UMMARY	1 2 - 1 - A - A	Seas File		
Sogranco ID No.4	ldeallder		Mcco)	Cono Namo	Valgaas Gluster Title
1551	11136	NM_012839	s	Rattus norvegicus Cytochrome C, expressed in somatic tissues (Cycs), mRNA. Length = 318	Cytochrome C, expressed in somatic tissues
1552	20885	NM_012842	a	Rattus norvegicus Epidermal growth factor (Egf), mRNA. Length = 4801	Epidermal growth factor
1552	20884	NM_012842	a,bb	Rattus norvegicus Epidermal growth factor (Egf), mRNA. Length = 4801	Epidermal growth factor
				Rattus norvegicus Lysosomal associated membrane protein 1 (120 kDa) (Lamp1), mRNA.	Lysosomal associated membrane
1553	18770	NM_012857	е	Length = 2006 Rattus norvegicus O6- methylguanine-DNA	protein 1 (120 kDa) ESTs, Weakly similar to S21348 probable pol polyprotein-related
1554	20674	NM_012861	i	methyltranferase (Mgmt), mRNA. Length = 812 Rattus norvegicus Matrix Gla protein (Mgp), mRNA.	protein 4 - rat [R.norvegicus],O6- methylguanine-DNA methyltranferase
1555	13151	NM_012862	a,r, General	Length = 521 Rattus norvegicus tumor necrosis factor receptor superfamily, member 11b	Matrix Gla protein
1556	24617	NM_012870	General	(osteoprotegerin) (Tnfrsf11b), mRNA. Length = 2432	Osteoprotegerin
1557	20945	NM 012875	a,v	Ribosomal protein L39 (Rpl39), mRNA. Length = 324	Ribosomal protein L39
1558	15872	NM 012879		Rattus norvegicus Solute carrier family 2 A2 (gkucose transporter, type 2) (Sic2a2), mRNA. Length = 2573	Solute carrier family 2 A2 (gkucose transporter, type 2)
			· · · · · ·	Rattus norvegicus Superoxide dismutase 3 (Sod3), mRNA. Length =	
1559	494	NM_012880 NM_012880	z ·	1729 Rattus norvegicus Superoxide dismutase 3 (Sod3), mRNA. Length = 1729	Superoxide dimutase 3 . Superoxide dimutase 3
			d,u, General	Rattus norvegicus Sialoprotein (osteopontin) (Spp1), mRNA. Length =	Siatoprotein (osteopontin)
1560	23651	NM_012881		Rattus norvegicus Acyl-Coa dehydrogenase, Very long chain (Acadvl), mRNA.	EST, Moderately similar to ACDV RAT ACYL-COA DEHYDROGENASE, VERY-LONG-CHAIN SPECIFIC, MITOCHONDRIAL PRECURSOR
1562	19477	NM_012891	q	Length = 2117 Rattus norvegicus aminolevulinate,delta- ,dehydratase (Alad), mRNA.	[R.norvegicus]  Delta - aminolevulinic acid
1563	18564	NM_012899		Length = 1116  Rattus norvegicus Annexin 1 (p35) (Lipocortin 1) (Anxa1),	dehydratase
1564	7197	NM_012904	eral v.cc.	mRNA. Length = 1402 Rattus norvegicus Annexin 1 (p35) (Lipocortin 1) (Anxa1),	Annexin 1 (p35) (Lipocortin 1)
1564	7196	NM_012904	General	mRNA. Length = 1402 Rattus norvegicus Aquaporin 2 (Aqp2), mRNA. Length =	Annexin 1 (p35) (Lipocortin 1)
1565	20202	NM_012909	b,r	939	Aquaporin 2

TABLE 1: S	UMMARY				Ally, Docket No. 44921-51334. Dock No. 1793397.1
Sequence .	D-0	Content Ace.	Model	Core Namo	Uninana Givetan Tilda
D No.		Ref. Sec D		Rattus norvegicus Arrestin, beta 2 (Arrb2), mRNA.	
1566	16581	NM 012911	c.j	Length = 1758 Rattus norvegicus Arrestin, beta 2 (Arrb2), mRNA. Length = 1758	Arrestin, beta 2  Arrestin, beta 2
1566	16582 24431	NM_012911 NM_012912	General	Rattus norvegicus Activating transcription factor 3 (Atf3), mRNA. Length = 1893	Activating transcription factor 3
1307	24431	1410 012912	Concrat	Rattus norvegicus ATPase, Na+K+ transporting, beta polypeptide 3 (Atp1b3),	ATPase, Na+K+ transporting, beta
1568	18118	NM_012913	р	mRNA. Length = 1818 Rattus norvegicus ATPase inhibitor (rat mitochondrial	polypeptide 3
1569	6108	NM_012915	n	IF1 protein) (Atpi), mRNA. Length = 833 Rattus norvegicus Cyclin G1	ATPase inhibitor (rat mitochondrial IF1 protein)
1570	20757	NM_012923	c,i,aa	(Ccng1), mRNA. Length = 3169 Rattus norvegicus Cyclin G1	Cyclin G1
1570	20755	NM_012923	<u>i</u>	(Ccng1), mRNA. Length = 3169 Rattus norvegicus CD59	Cyclin G1
1571	2830	NM_012925	f	antigen (Cd59), mRNA. Length = 1523 Rattus norvegicus CD59	CD59 antigen
1571	2831	NM_012925	f	antigen (Cd59), mRNA. Length = 1523 Rattus norvegicus Carnitine	CD59 antigen
1572	1977	NM_012930	g	palmitoyltransferase 2 (Cpt2), mRNA. Length = 2296	Carnitine palmitoyltransferase 2
				Rattus norvegicus v-crk- associated tyrosine kinase substrate (Crkas), mRNA.	v-crk-associated tyrosine kinase
1573	18694	NM_012931	j,l,m,z	Rattus norvegicus Crystallin, alpha polypeptide 2 (Cryab),	substrate
1574	13723	NM_012935	n	mRNA. Length = 528 Rattus norvegicus Cathepsin H (Ctsh), mRNA. Length =	Crystallin, alpha polypeptide 2,ESTs
1575	9109	NM_012939	j.y.z ·	1362   Rattus norvegicus Cathepsin   H (Ctsh), mRNA. Length =	Cathepsin H
1575	19398	NM_012939	aa	Rattus norvegicus Diphtheria toxin receptor(heparin binding epidermal growth	Diphtheria toxin receptor (heparin
1576	223	NM_012945	b,cc	factor - like growth factor) (Dtr), mRNA. Length = 1550 Rattus norvegicus Thrombin	binding epidermal growth factor - like growth factor)
1577	15058	NM_012950	œ	receptor (F2r), mRNA. Length = 3418 Rattus norvegicus High	Thrombin receptor
1579	19111	NM_012963	9	mobility group 1 (Hmg1), mRNA. Length = 1225 Rattus norvegicus	High mobility group 1
1580	19374	NM_012964	x	Hyaluronan mediated motility receptor (RHAMM) (Hmmr), mRNA. Length = 2049 Rattus norvegicus	Hyaluronan mediated motility receptor (RHAMM)
1581	2554	NM_012967	t	Intercellular adhesion molecule 1 (Icam1), mRNA. Length = 2602	Intercellular adhesion molecule 1

TADLE 1: 8	BULLIMARY.				Any. Docket No. 44924-5939.V Doc. No. 1793397
Sequence D Korr	leanlifier	Gorbark Acc.	Model Godo i	Cere Nemo	Unitene Civitor Tillo
				Rattus norvegicus	
			t,cc,	Intercellular adhesion molecule 1 (Icam1), mRNA.	
1581	2555	NM_012967	General	Length = 2602	Intercellular adhesion molecule 1
				Rattus norvegicus Potassium (K+) channel protein, slowly	
				activating (Isk) (Kcne1),	Potassium (K+) channel protein,
1582	24528	NM_012973	С	mRNA. Length = 585	slowly activating (lsk)
				Rattus norvegicus Lectin, galactose binding, soluble 5	
				(Galectin-5) (Lgals5), mRNA.	Lectin, galactose binding, soluble 9
1583	956	NM_012976	С	Length = 872	(Galectin-9)
•			i	Rattus norvegicus	
			1	Nucleoprotein 50kD (Nup50),	
1584_	16417	NM_012991	9	mRNA. Length = 3027	Nuclear pore associated protein
			}	Rattus norvegicus Nucleoplasmin-related	
				protein (Nuclear protein B23	
4===	47000	040000	ا	(Npm1), mRNA. Length =	Nucleoplasmin-related protein (Nuclear protein B23)
1585	17393	NM_012992	d	1232 Rattus norvegicus	(Nuclear protein 623
				Prosaposin (sulfated	
		İ		glycoprotein, sphingolipid	Description of the secretary
1586	23544	NM 013013	s	hydrolase activator) (Psap), mRNA. Length = 2175	Prosaposin (sulfated glycoprotein, sphingolipid hydrolase activator)
,	1	, <u>. 0 100 ; 0</u>		Rattus norvegicus Syndecan	
4503	4500	N. 040000		1 (Sdc1), mRNA. Length =	Sundana 1
1587	1588	NM_013026	k	2410 Rattus norvegicus	Syndecan 1
				Selenoprotein W muscle 1	
	47004	040007	<u></u>	(Sepw1), mRNA. Length =	Selenoprotein W muscle 1
1588	17894	NM_013027	m ·	Rattus norvegicus Solute	Selenoprotein W muscle 1
				carrier family 17	
				(sodium/hydrogen	
			s.v,	exchanger), member 2 (Sic34a1), mRNA. Length =	Rattus norvegicus mRNA for NaPi-2
1589	18300	NM_013030	General	2440	alpha, complete cds
				Rattus norvegicus Solute carrier family 17	
		1		(sodium/hydrogen	
	,			exchanger), member 2	Solute carrier family 17
1500	18076	NM 013030		(Sic34a1), mRNA. Length = 2440	(sodium/hydrogen exchanger), member 2
1589	18076	INM_013030	g,s,z	Rattus norvegicus Solute	member 2
				carrier family 17	
		1		(sodium/hydrogen exchanger), member 2	Rattus norvegicus mRNA for NaPi-2 alpha, complete cds,Solute carrier
				(Slc34a1), mRNA. Length =	family 17 (sodium/hydrogen
1589	18078	NM_013030	s	2440	exchanger), member 2
				Rattus norvegicus Solute carrier family 17	
			1	(sodium/hydrogen	
				exchanger), member 2	Solute carrier family 17
1589	18077	NM 013030	e.s.z	(Sic34a1), mRNA. Length = 2440	(sodium/hydrogen exchanger), member 2
1305	10077	1141M_0 13030	3,3,2	Rattus norvegicus ATP-	
				binding cassette, sub-family	
			1	C (CFTR/MRP), member 9 (Abcc9), mRNA. Length =	
1591	730	NM 013040	w	5000	Sulfonylurea receptor 2

VADLE 1: S	WMMYZY .				Any, Docket No. 44921-515900 Doc. No. 1793897,
Sequence \$ ID No. +	(teleminiter	GonBenk Accill Roll SoulD	Model + Gode	email enco	Unicano Ciuster Villo
1592	17401	NM_013043	i,o, General	Rattus norvegicus Transforming growth factor beta stimulated clone 22 (Tgfb1i4), mRNA. Length = 1666	Transforming growth factor beta stimulated clone 22
1593	16684	NM_013052	General	Rattus norvegicus Tyrosine 3 monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide (Ywhah), mRNA. Length = 1689	Tyrosine 3- monooxygenase/tryptophan 5- monooxygenase activation protein, eta polypeptide
1594	14421	NM_013053	U	Rattus norvegicus Tyrosine 3 monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide (Ywhaq), mRNA. Length = 2099	Tyrosine 3- monooxygenase/tryptophan 5- monooxygenase activation protein, theta polypeptide
1595	15254	NM 013058	k	Rattus norvegicus Inhibitor of DNA binding 3, dominant negative helix-loop-helix protein (Id3), mRNA. Length = 568	Inhibitor of DNA binding 3, dominant negative helix-toop-helix protein
1596	14997	NM_013059	s,z	Rattus norvegicus Tissue- nonspecific ALP alkaline phosphatase (AlpI), mRNA. Length = 2415	Tissue-nonspecific ALP alkaline phosphatase
1596	14996	NM 013059	General	Rattus norvegicus Tissue- nonspecific ALP alkaline phosphatase (AlpI), mRNA. Length = 2415	Tissue-nonspecific ALP alkaline phosphatase
1330	14330	(NW_013033	General	Rattus norvegicus CD74 antigen (invariant polpypeptide of major histocompatibility class II antigen-associated) (Cd74),	
1597	25676	NM_013069	aa	mRNA. Length = 1150 Rattus norvegicus CD74 antigen (invariant polpypeptide of major histocompatibility class II antigen-associated) (Cd74),	CD74 antigen (invariant polpypeptide of major histocompatibility class II
1597	16924	NM_013069	0	mRNA. Length = 1150 Rattus norvegicus Utrophin (Utrn), mRNA. Length =	antigen-associated)
1598	1529	NM_013070	d,General	10,705  Rattus norvegicus Ryudocan/syndecan 2 (Sdc2), mRNA. Length = 2153	Utrophin  Ryudocan/syndecan 2
			j,l,2,	Rattus norvegicus Tumor necrosis factor receptor superfamily, member 1a (Tnfr1), mRNA. Length =	
1600	1521	NM_013091	General	2130 Rattus norvegicus Hemoglobin, alpha 1 (Hba1),	Tumor necrosis factor receptor
1601	1685	NM_013096	c,aa	mRNA. Length = 556 Rattus norvegicus Hemoglobin, alpha 1 (Hba1),	Hemoglobin, alpha 1
1601	26150	NM_013096	c,i	mRNA. Length = 556 Rattus norvegicus Hemoglobin, alpha 1 (Hba1),	
1601	1688	NM_013096	ρ	mRNA. Length = 556	Hemoglobin, alpha 1

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TABLE 1: S	WINNERY .		, i		"Ally, Docket No. 44921-5000W0 Dock No. 1793397.1
Siguence Educación	Menillier .	Constal Ace Reference	Model Code : 1.		Unigeno Gluster Title
1601	1689	NM_013096	c,p	Rattus norvegicus Hemoglobin, alpha 1 (Hba1), mRNA, Length = 556 Rattus norvegicus	Hemoglobín, alpha 1
1601	1684	NM_013096	c,s,aa	Hemoglobin, alpha 1 (Hba1), mRNA. Length = 556	Hemoglobin, alpha 1
1602	20886	NM 013097	u,x,bb	Rattus norvegicus Deoxyribonuclease I (Dnase1), mRNA. Length =	Deoxyribonuclease I
1602	20887	NM 013097	u,x,bb	Rattus norvegicus Deoxyribonuclease I (Dnase1), mRNA, Length = 1143	Deoxyribonuclease I
1603	1321	NM_013098	с	Rattus norvegicus Glucose-6- phosphatase (G6pc), mRNA. Length = 2237	Glucose-6-phosphatase
4604		NM 013102	l,m	Rattus norvegicus FK506- binding protein 1 (12kD) (Fkbp1a), mRNA. Length = 554	FK506-binding protein 1 (12kD)
1604	15296	NM_013102	1,111	Rattus norvegicus ATPase Na+/K+ transporting beta 1 polypeptide (Atp1b1),	ATPase Na+/K+ transporting beta 1
1606	23709	NM_013113	o,s,z,aa	mRNA. Length = 2528 Rattus norvegicus ATPase	polypeptide
1606	23711	NM_013113	p	Na+/K+ transporting beta 1 polypeptide (Atp1b1), mRNA. Length = 2528	ATPase Na+/K+ transporting beta 1 polypeptide
1606	23710	NM_013113	s	Rattus norvegicus ATPase Na+/K+ transporting beta 1 polypeptide (Atp1b1), mRNA. Length = 2528	ATPase Na+/K+ transporting beta 1 polypeptide
1607	1976	NM_013118	u _	Rattus norvegicus Guanylate cyclase activator 2 (guanylin) (Guca2a), mRNA. Length = 567	Guanylate cyclase activator 2 (guanylin)
1609	870	NM 013130	h	Rattus norvegicus MAD (mothers against decapentaplegic, Drosophila) homolog 1 (Madh1), mRNA. Length = 2002	MAD (mothers against decapentaplegic, Drosophila) homolog
1610	16650	NM_013132	u,General	Rattus norvegicus Annexin V (Anx5), mRNA. Length = 1417	Annexin V
1611	650	NM_013134	h	Rattus norvegicus 3-hydroxy- 3-methylglutaryl-Coenzyme A reductase (Hmgcr), mRNA. Length = 2664	3-hydroxy-3-methylglutaryl-Coenzyme A reductase
1611	651	NM_013134	h.j,l	Rattus norvegicus 3-hydroxy- 3-methylglutaryl-Coenzyme A reductase (Hmgcr), mRNA. Length = 2664	3-hydroxy-3-methylglutaryl-Coenzyme A reductase
			7.	Rattus norvegicus Inositol 1, 4, 5-triphosphate receptor 3 (Itpr3), mRNA. Length =	
1612	1712	NM_013138	General	8806 Rattus norvegicus Insulin- like growth factor binding	Inositol 1, 4, 5-triphosphate receptor 3  Insulin-like growth factor binding
1613	16982	NM_013144	o,v, General	protein 1 (Igfbp1), mRNA. Length = 1500	protein 1

		34	- 572 day		
TABLE 1: 8		100			AMY, Doctol No. 44921-5199WC Doc. No. 1799997.
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<u> </u>	. Juctemannes			Rattus norvegicus	
				CCAAT/enhancerbinding, protein (C/EBP) delta	
			t,cc.	(Cebpd), mRNA. Length =	CCAAT/enhancerbinding, protein
1614	21683	NM_013154	General	Rattus norvegicus	(C/EBP) delta
				CCAAT/enhancerbinding,	
				protein (C/EBP) delta (Cebpd), mRNA. Length =	CCAAT/enhancerbinding, protein
1614	21682	NM_013154	cc_	1200	(C/EBP) delta
				Rattus norvegicus Cathepsin L (Ctsl), mRNA. Length =	
1615	3431	NM 013156	b,g,n	1386	Cathepsin L
				Rattus norvegicus Cathepsin	
1615	25567	NM 013156	v,General	L (Ctsl), mRNA. Length =	
				Rattus norvegicus Cathepsin	
1615	3430	NM 013156	General	L (Ctsl), mRNA. Length =	Cathepsin L
.010	10,00			Rattus norvegicus Insulin	
1616	1309	NM 013159	w	degrading enzyme (Ide), mRNA. Length = 4276	Insulin degrading enzyme
1010	1303	1411-010105		Rattus norvegicus Insulin	modum cognitioning only
1616	1310	NM 013159	w	degrading enzyme (Ide), mRNA. Length = 4276	Insulin degrading enzyme
1010	1310	MM_013139	W	Rattus norvegicus	misum degrading enzymo
				Transforming growth factor,	
1617	21723	NM 013174	w	beta 3 (Tgfb3), mRNA. Length = 2633	Transforming growth factor, beta 3
				Rattus norvegicus Protein	
			<b>.</b>	kinase, cAMP dependent, regulatory, type 1 (Prkar1a),	Protein kinase, cAMP dependent,
1618	1314	NM_013181_	m	mRNA. Length = 1433	regulatory, type 1
			p,bb,	Rattus norvegicus Meprin 1 beta (Mep1b), mRNA.	·
1619	17357	NM_013183	General	Length = 2290	Meprin 1 beta
				Rattus norvegicus Phosphofructokinase, liver,	
				B-type (Pfkl), mRNA. Length	
1620	1300	NM_013190	у	= 2740 Rattus norvegicus	Phosphofructokinase, liver, B-type
				Aminolevulinate synthase 2,	
4604	16448	NIM 042407	c	delta (Alas2), mRNA. Length	Aminolevulinate synthase 2, delta
1621	10440	NM_013197		Rattus norvegicus Camitine	Parinioievannato synthase 2, dona
				palmitoyltransferase 1 beta, muscle isoform (Cpt1b),	Carnitine palmitoyltransferase 1 beta,
1622	20856	NM_013200	b	mRNA. Length = 2826	muscle isoform
				Pattus populacione and CaA	Rattus norvegicus brain cytosolic acyl coenzyme A thioester hydrolase
				Rattus norvegicus acyl-CoA hydrolase (RBACH), mRNA.	mRNA, complete cds,acyl-CoA
1623	397	NM_013214	f	Length = 1523	hydrolase
				Rattus norvegicus aflatoxin B1 aldehyde reductase	
			<u>                                     </u>	(AFAR), mRNA. Length =	effetovia D4 aldobuda radustano
1624	20864	NM_013215	g.n.y	1272	aflatoxin B1 aldehyde reductase
	20722			Rattus norvegicus afadin (AF	
1625	20728	NM_013217	<u>                                     </u>	6), mRNA. Length = 5957 Rattus norvegicus	afadin
				augmenter of liver	
1626	1396	NM_013222	l <sub>i</sub>	regeneration (ALR), mRNA. Length = 1226	augmenter of liver regeneration
	1,000		<del>'</del>	Rattus norvegicus ribosomal	
1627	815	NM 013224	w	protein S26 (Rps26), mRNA. Length = 435	ribosomal protein S26
1627	1013	NM_013224		Leongin - 400	Indesental protein 920

VACUE OF S	UMMARY				# AMY Docket No. 44921-5189W0 Dock No. 1796997.6
Sciums Sciums	ldentiler	GonBeigliched Reil Seoild	Medeli. Godo	Gana Nama	Unigere Creater Tille
1628	18305	NM 013226	v	Rattus norvegicus ribosomal protein L32 (Rpi32), mRNA. Length = 465	
1025	10000			Rattus norvegicus Acyl- Coenzyme A dehydrogenase, C-4 to C-12 straight-chain (Acadm),	Acyl-Coenzyme A dehydrogenase, C-
1629	21078	NM_016986	d	mRNA. Length = 1866 Rattus norvegicus Acid phosphatase 2, lysozymal	4 to C-12 straight-chain
1630	24649	NM_016988	v	(Acp2), mRNA. Length = 2009	Acid phosphatase 2, lysozymal
1631	15239	NM_016989	q,w	Rattus norvegicus adenylate cyclase activating polypeptide 1 (Adcyap1), mRNA. Length = 2681	R.norvegicus (Sprague Dawley) ribosomal protein L15 mRNA
4622	45	NM 045006	General	Rattus norvegicus Calcium- sensing receptor (hypocalciuric hypercalcemia 1, severe neonatal hyperparathyroidism) (Casr), mRNA. Length = 4113	Calcium-sensing receptor (hypocalciuric hypercalcemia 1, severe neonatal hyperparathyroidism)
1633	20714	NM_016996	t	Rattus norvegicus Cytochrome P450, subfamily IVB, polypeptide 1 (Cyp4b1), mRNA. Length = 2462	Cytochrome P450, subfamily IVB, polypeptide 1
1633	20713	NM_016999	t	Rattus norvegicus Cytochrome P450, subfamily IVB, polypeptide 1 (Cyp4b1), mRNA. Length = 2462	Cytochrome P450, subfamily IVB, potypeptide 1
1633	20711	NM_016999	q,t	Rattus norvegicus Cytochrome P450, subfamily IVB, polypeptide 1 (Cyp4b1), mRNA. Length = 2462	Cytochrome P450, subfamily IVB, polypeptide 1
1633	20715	NM_016999	q,t	Rattus norvegicus Cytochrome P450, subfamily IVB, polypeptide 1 (Cyp4b1), mRNA. Length = 2462	Cytochrome P450, subfamily IVB, polypeptide 1
			e,n,p,	Rattus norvegicus Diaphorase (NADH/NADPH) (Dia4), mRNA. Length =	
1634	1698	NM_017000	General h,n,	1396 Rattus norvegicus Glucose-6- phosphate dehydrogenase (G6pd), mRNA. Length =	Diaphorase (NADH/NADPH)
1635	18989	NM_017006	General	2324 Rattus norvegicus Glutathione-S-transferase, alpha type (Yc?) (Gsta2), mRNA Length = 830	Glucose-6-phosphate dehydrogenase Glutathione-S-transferase, alpha type (Yc?)
1637	18989	NM_017013	n o f	mRNA. Length = 830 Rattus norvegicus Giutathione-S-transferase, mu type 2 (Yb2) (Gstm2), mRNA Length = 1055	Glutathione-S-transferase, mu type 2 (Yb2)
1638	21013	NM_017014 NM_017014	e,f e,General	mRNA. Length = 1055 Rattus norvegicus Glutathione-S-transferase, mu type 2 (Yb2) (Gstm2), mRNA. Length = 1055	Glutathione-S-transferase, mu type 2 (Yb2)

TABLE 1: S	MWWASA				Airy. Doctor No. 44921-5039W0 Doc. No. 1793397,1
Soguenco ID Noi		Girlant (Acc) Rol. Son (D):	Model Gode	Gane Name	Vilgene Cluster Title
1639	11836	NM_017023	b	Rattus norvegicus Potassium inwardly-rectifying channel, subfamily J (Kcnj1), mRNA. Length = 2069	Potassium inwardly-rectifying channel, subfamily J
1639	5475	NM_017023	b	Rattus norvegicus Potassium inwardly-rectifying channel, subfamily J (Kcnj1), mRNA. Length = 2069	ESTs,Potassium inwardly-rectifying channel, subfamily J
				Rattus norvegicus Potassium inwardly-rectifying channel, subfamily J (Kcnj1), mRNA.	
1639	25546	NM_017023	b,bb	Length = 2069 Rattus norvegicus Lactate dehydrogenase A (Ldha),	
1640	17807	NM_017025	i,General	mRNA. Length = 1609 Rattus norvegicus Protein phosphatase 2 (formerly 2A),	Lactate dehydrogenase A
1641	24597	NM_017040	u	catalytic subunit, beta isoform (Ppp2cb), mRNA. Length = 1843	Protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform
				Rattus norvegicus Solute carrier family 4, member 2, anion exchange protein 2 (Slc4a2), mRNA. Length =	Solute carrier family 4, member 2,
1642	24696	NM_017048	f,j,z	4057 Rattus norvegicus Solute	anion exchange protein 2
1643	24695	NM_017049	<b>U</b>	carrier family 4, member 3, anion exchange protein 3 (Slc4a3), mRNA. Length = 3877	Solute carrier family 4, member 3, anion exchange protein 3
	-			Rattus norvegicus Superoxide dismutase 1, soluble (Sod1), mRNA.	
1644	20876	NM_017050	j,n,z	Length = 650  Rattus norvegicus Bcl2- associated X protein (Bax),	Superoxide dimutase 1, soluble
1645	910	NM_017059	f,l,m	mRNA. Length = 579 Rattus norvegicus Bcl2-	Bcl2-associated X protein
1645	912	NM_017059	i	associated X protein (Bax), mRNA. Length = 579 Rattus norvegicus Lysyl	Bcl2-associated X protein
1646	1946	NM_017061	h	oxidase (Lox), mRNA. Length = 4557	Lysyl oxidase
1646	1942	NM_017061	t,General	Rattus norvegicus Lysyl oxidase (Lox), mRNA. Length = 4557	Lysyl oxidase
1646	1943	NM_017061	t	Rattus norvegicus Lysyl oxidase (Lox), mRNA. Length = 4557	Lysyl oxidase
				Rattus norvegicus Pteiotrophin (Heparine binding factor, Hbnf, in the	Pleiotrophin (Heparine binding factor,
1647	6062	NM_017066	d	= 1246  Rattus norvegicus Lysosomal-associated	Hbnf, in the mouse)
1648	6654	NM_017068	w	membrane protein 2 (Lamp2), mRNA. Length = 1548	Lysosomal-associated membrane protein 2
				Rattus norvegicus Glutamine synthetase (glutamate- ammonia ligase) (Glul),	Glutamine synthetase (glutamate-
1649	11153	NM_017073	s	mRNA. Length = 2793	ammonia ligase)

TADLE 1: S				70 W	Any, Docker No. 44221-503200 Doc No. 1723227, 1
Sogranci ID No.		Confent Ace	Model Godo	1 1 2	Milijanoj (Civistor Ville)
1650	923	NM_017076	General	Rattus norvegicus Tumor- associated glycoprotein pE4 (Tage4), mRNA. Length = 2171 Rattus norvegicus CD1D	Tumor-associated glycoprotein pE4
1651	1523	NM_017079	s	antigen (Cd1d), mRNA. Length = 1835	CD1D antigen
1652	23660	NM_017080	ø	= 1265	Hydroxysteroid dehydrogenase, 11 beta type 1
1653	275	NM 017081	b,d, General	Rattus norvegicus Hydroxysteroid dehydrogenase, 11 beta type 2 (Hsd11b2), mRNA. Length = 1864	Hydroxysteroid dehydrogenase, 11 beta type 2
1654	16211	NM_017082	j,s,z	Rattus norvegicus Urmodulin (Tamm-Horsfall protein) (Umod), mRNA. Length = 2227	Urmodulin (Tamm-Horsfall protein)
1655	1552	NM_017084	i	Rattus norvegicus Glycine methyltransferase (Gnmt), mRNA. Length = 988	Glycine methyltransferase
1655	1550	NM_017084	у	Rattus norvegicus Glycine methyltransferase (Gnmt), mRNA. Length = 988	Glycine methyltransferase
1656	22552	NM 017087	a,k,x	Rattus norvegicus Small proteoglycan I (biglycan), bone (BSPG1) (bone/cartilage proteclycan 1 precursor) (Bgn), mRNA. Length = 2446	Small proteoglycan I (biglycan), bone (BSPG1) (bone/cartilage proteclycan 1 precursor)
			·	Rattus norvegicus guanylate cyclase 1, soluble, alpha 3 (Gucy1a3), mRNA. Length =	Guanylate cyclase, soluble, alpha 1 (GTP pyrophosphate - lyase)
1657	8888	NM_017090	m	A775 Rattus norvegicus Growth hormone receptor (Ghr),	(GTP pyrupinospriate - ryase)
1658	10887	NM_017094		mRNA. Length = 2950 Rattus norvegicus Peptidylprolyl Isomerase A (cyclophilin A) (Ppia), mRNA.	Growth hormone receptor  Peptidylprolyl isomerase A (cyclophilin
1659	4393	NM_017101	а,у	Length = 743 Rattus norvegicus solute carrier family (organic anion transporter) member 1 (Sic21a1), mRNA, Length =	A)  solute carrier family (organic anion
1660	24770	NM_017111	d	2758 Rattus norvegicus granulin	transporter) member 1
1661	20745	NM_017113	e	(Gm), mRNA. Length = 2113 Rattus norvegicus granulin	
1661	20746	NM_017113	a	(Gm), mRNA. Length = 2113 Rattus norvegicus hippocalcin (Hpca), mRNA.	granulin
1662	1375	NM_017122	w	Length = 1561 Rattus norvegicus CD37 antigen (Cd37), mRNA.	hippocalcin
1663	12903	NM_017124	k	Length = 1158 Rattus norvegicus laminin	CD37 antigen
1664_	24885	NM_017138	<u>-</u>	receptor 1 (Lamr1), mRNA. Length = 1018 Rattus norvegicus laminin	laminin receptor 1
1664	24886	NM_017138	d,q	receptor 1 (Lamr1), mRNA. Length = 1018	laminin receptor 1

TABLE 1: 8	UMMARY				7311y, Doctot No, 44221-5032000 Doc, No, 1793327.1
Sognancia ID No.	ระที่บัดเยอโ	Gondank Acc Ref. Sep ID	Medal : Codo	Ganellane	
1665	15363	NM 017147	n,u	Rattus norvegicus cofilin 1, non-muscle (Cfi1), mRNA. Length = 1039	cofilin 1, non-muscle
1666	13392	NM_017148	u,General	Rattus norvegicus cysteine rich protein 1 (Csrp1), mRNA. Length = 1403 Rattus norvegicus ribosomal	cysteine rich protein
1667	5351	NM_017150	9	protein L29 (Rpi29), mRNA. Length = 630 Rattus norvegicus ribosomal	ribosomal protein L29
1668	16954	NM_017151	a,n	protein S15 (Rps15), mRNA. Length = 487 Rattus norvegicus ribosomal	ribosomal protein S15
1669	21643	NM_017152	9	protein S17 (Rps17), mRNA. Length = 466 Rattus norvegicus ribosomal	ribosomal protein S17
1670	1694	NM_017153	a,q bb.	protein S3a (Rps3a), mRNA. Length = 880 Rattus norvegicus ribosomal protein S6 (Rps6), mRNA.	ribosomal protein S3a
1671	17104	NM_017160	General	Length = 801 Rattus norvegicus ribosomal protein S6 (Rps6), mRNA.	ribosomal protein S6
1671	17106	NM_017160	u	Length = 801 Rattus norvegicus ribosomal protein S6 (Rps6), mRNA.	ribosomal protein S6
1671	17107	NM_017160	d,e	Length = 801  Rattus norvegicus glutathione peroxidase 4	ribosomal protein S6
1672	17686	NM_017165	n,q	(Gpx4), mRNA. Length = 872 Rattus norvegicus Leukemia- associatedcytosolic phosphoprotein stathmin (Lap18), mRNA. Length =	Leukemia-associated cytosolic
1673	3513	NM_017166 NM_017177	r	1054 Rattus norvegicus choline/ethanolamine kinase (Chetk), mRNA. Length = 1679	phosphoprotein stathmin
1675	19031	NM 017180	v,General	Rattus norvegicus T-cell death associated gene (Tdag), mRNA. Length = 1353	T-cell death associated gene
	45407	ADA 047407		Rattus norvegicus high mobility group box 2 (Hmgb2), mRNA. Length = 1072	high makilika gaman periolo 2
1676	15437	NM_017187	x,z	Rattus norvegicus high mobility group box 2 (Hmgb2), mRNA. Length = 1072	high mobility group protein 2  . high mobility group protein 2
				Rattus norvegicus high mobility group box 2 (Hmgb2), mRNA. Length =	high mobility group protein 2
1676	15434	NM_017187	x.ż	Rattus norvegicus Myelin- associaled glycoprotein (Mag), mRNA. Length =	mgn mooney group process 2
1677	24437	NM_017190	р	2474 Rattus norvegicus kynurenine aminotransferase II (Kat2), mRNA. Length =	Myelin-associated glycoprotein
1678	1542	NM_017193	j,l,m,z	1828	kynurenine aminotransferase II

TABLE 11 S	WIMARY .				Ally, Docket No. 44221-5039Wi Doc. No., 17533897.
Sequence, DAN		GonDank Acci Rai Scoll	Modal & Godo: F	Coro Namo	Univers Civeler Tills
1679	14695	NM_017202	q,s	Rattus norvegicus cytochrome c oxidase, subunit IVa (Cox4a), mRNA. Length = 696	cytochrome c oxidase, subunit IV
1679	14694	NM_017202	s,z	Rattus norvegicus cytochrome c oxidase, subunit IVa (Cox4a), mRNA. Length = 696	cytochrome c oxidase, subunit IV
				Rattus norvegicus outer dense fiber of sperm tails 2 (Odf2), mRNA. Length =	
1680	1428	NM_017213	m	2451 Rattus norvegicus solute carrier family 3, member 1	outer dense fiber of sperm tails 2
1681	1622	NM_017216	g.j.s.z	(Slc3a1), mRNA. Length = 2305 Rattus norvegicus 6-pyruvoyl	solute carrier family 3, member 1
1682	13642	NM_017220	v	tetrahydropterin synthase (Pts), mRNA. Length = 1176 Rattus norvegicus 6-pyruvoyl	ESTs
1682	19976	NM_017220	w	tetrahydropterin synthase (Pts), mRNA. Length = 1176	ESTs
1683	1510	NM_017224	General	Rattus norvegicus organic cationic transporter-like 1 (Orctl1), mRNA. Length = 2227	organic cationic transporter-like 1
				Rattus norvegicus dentatorubral pallidoluyslan atrophy (Orpla), mRNA.	
1684	1811	NM_017228	j,I,m,z	Length = 4387  Rattus norvegicus eukaryotic translation elongation factor	dentatorubral pallidoluysian atrophy
1686	17563	NM_017245	a,c,e,q	2 (Eef2), mRNA. Length = 2626 Rattus norvegicus	eukaryotic translation elongation factor 2
				heterogeneous nuclear ribonucleoprotein A1 (Hnrpa1), mRNA. Length =	heterogeneous nuclear
1687	17502	NM_017248	r ·	1696 Rattus norvegicus heterogeneous nuclear ribonucleoprotein A1	ribonucleoprotein A1
1687	17501	NM_017248	x	(Hnrpa1), mRNA. Length = 1696 Rattus norvegicus B-cell	heterogeneous nuclear ribonucleoprotein A1
		*		translocation gene 1, anti- proliferative (Btg1), mRNA.	B-cell translocation gene 1, anti-
1688	19	NM_017258	v,General	Length = 1464 Rattus norvegicus B-cell translocation gene 2, anti-	proliferative
1689	15300	NM_017259	i,v,cc, General	proliferative (Btg2), mRNA. Length = 2519 Rattus norvegicus B-cell	B-cell translocation gene 2, anti- proliferative
1689	15301	NM_017259	I,m,v,aa,c c, General	proliferative (Btg2), mRNA. Length = 2519	B-cell translocation gene 2, anti- proliferative
1689	15299	NM_017259	I,y,cc, General	Rattus norvegicus B-cell translocation gene 2, anti- proliferative (Btg2), mRNA. Length = 2519	B-cell translocation gene 2, anti- proliferative
				Rattus norvegicus protease (prosome, macropain) 28 subunit, alpha (Psme1),	protease (prosome, macropain) 28
1 <u>6</u> 90	15224	NM_017264	d	mRNA. Length = 921	subunit, aipha

TABLE 1: S	UMWARY	7 THE STATE OF THE	(1) (1)		11/ATTY: Docates No. 44924-E038W6
Sequence: ID No.	nceraliter	GenBank Assil Ref. Seq ID			Dos, Ko, 1799997. University Villa
				Rattus norvegicus proteasome (prosome, macropain) subunit, alpha type 3 (Psma3), mRNA.	proteasome (prosome, macropain)
1691	3987	NM_017280	bb	Length = 897 Rattus norvegicus proteasome (prosome,	subunit, alpha type 3
1692	1447	NM 017281	1	macropain) subunit, alpha type 4 (Psma4), mRNA. Length = 1121	proteasome (prosome, macropaln) subunit, alpha type 4
				Rattus norvegicus proteasome (prosome, macropain) subunit, alpha type 6 (Psma6), mRNA.	proteasome (prosome, macropain)
1693	15535	NM_017283	s,bb	Length = 932 Rattus norvegicus ATPase, Ca++ transporting, cardiac	subunit, alpha type 6
1694	12349	NM_017290	General	muscle, slow twitch 2 (Atp2a2), mRNA. Length = 5648	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2
				Rattus norvegicus calcium channel, voltage-dependent, L type, alpha 1D subunit (Cacna1d), mRNA. Length =	calcium channel, voltage-dependent,
1695	15819	NM_017298	p	7986 Rattus norvegicus solute	L type, alpha 1D subunit
				carrier family 19 (sodium/hydrogen exchanger), member 1 (Slc19a1), mRNA. Length =	solute carrier family 19 (sodium/hydrogen exchanger),
1696	23825	NM_017299	<u>v</u>	Rattus norvegicus solute carrier family 19	member 1
1696	23826	NM 017299	v	(sodium/hydrogen exchanger), member 1 (Slc19a1), mRNA. Length = 2402	solute carrier family 19 (sodium/hydrogen exchanger), member 1
1697	14003	NM 017305	j,l,m,y,z	Rattus norvegicus glutamate- cysteine ligase , modifier subunit (Gclm), mRNA. Length = 1382	Glutamate-cysteine ligase (gamma- glutamylcysteine synthetase), regulatory
				Rattus norvegicus dodecenoyl-Coenzyme A delta isomerase (3,2 trans- enoyl-Coenyme A	
1698	26109	NM_017306	q,s	isomerase) (DCI), mRNA. Length = 972 Rattus norvegicus	EST
				dodecenoyl-Coenzyme A delta isomerase (3,2 trans- enoyl-Coenyme A	Rat mRNA for delta3, delta2-enoyl- CoA isomerase,dodecenoyl-
1698	18687	NM_017306	q.t	isomerase) (DCI), mRNA. Length = 972 Rattus norvegicus ubiquitin	Coenzyme A delta isomerase (3,2 trans-enoyl-Coenyme A isomerase)
1699	18142	NM_017314	g,s,aa	C (Ubc), mRNA. Length = 2545 Rattus norvegicus cathepsin	ubiquitin C
1700	1894	NM_017320	t	S (Ctss), mRNA. Length = 1330 Rattus norvegicus	cathepsin S
1701	20809	NM_017326	u	calmodulin (RCM3), mRNA. Length = 1112 Rattus norvegicus	calmodulin
1702	355	NM_017334	œ	transcriptional repressor CREM (CREM), mRNA. Length = 436	

VADLE 1: E			100 m		Ally. Docket No. 44921-503900 Doc. No. 1793397.
Scoluciaco D No.	ใก้อสมัติก	Codenia Roi Segio	Model Model	Cono Namo	Unigana Ciuster Tille:
				Rattus norvegicus acyl-coA	
				oxidase (RATACOA1),	and and oxidara
703	16148	NM_017340	q.s	mRNA. Length = 3741 Rattus norvegicus acyl-coA	acyl-coA oxidase
				oxidase (RATACOA1),	
1703	16150	NM_017340	a · _	mRNA. Length = 3741	acyl-coA oxidase
				Rattus norvegicus myosin regulatory light chain	•
			r,u,	(MRLCB), mRNA. Length =	Rat mRNA for myosin regulatory light
1704	20849	NM_017343	General	1139	chain (RLC)
	İ			Rattus norvegicus myosin regulatory light chain	
			i	(MRLCB), mRNA. Length =	Rat mRNA for myosin regulatory light
1704	20848	NM_017343	b,General	1139	chain (RLC)
				Rattus norvegicus urinary	
				plasminogen activator receptor 2 (uPAR-2), mRNA.	urinary plasminogen activator recepto
1705	606	NM_017350	b	Length = 1272	2
<u>::                                   </u>	<u> </u>			Rattus norvegicus PDZ and	
	Į			LIM domain 1 (elfin)	
1706	1581	NM 017365	General	(Pdlim1), mRNA. Length = 1392	LIM protein
1700	1381	14101_017303	Contrac	Rattus norvegicus	
				Tropomyosin 1 (alpha)	
				(Tpm1), mRNA. Length =	Transmussin 1 (alaha)
1707	455	NM_019131	×	Rattus norvegicus	Tropomyosin 1 (alpha)
				Tropomyosin 1 (alpha)	
	1			(Tpm1), mRNA. Length =	
1707	456	NM_019131	y,z	1004	Tropomyosin 1 (alpha)
				Rattus norvegicus Solute	
				carrier family 12, member 1 (bumetanide-sensitive	
				sodium-[potassium]-chloride	Solute carrier family 12, member 1
	•			cotransporter) (Sic12a1),	(burnetanide-sensitive sodium-
1708	4532	NM_019134	b	mRNA. Length = 4595 Rattus norvegicus	[potassium]-chloride cotransporter) ESTs, Moderately similar to
				synaptogyrin 1 (Syngr1),	synaptogyrin
1709 ·	1608	NM 019166	j.y.z	mRNA. Length = 879	[R.norvegicus],synaptogyrin 1
ALEXANDER OF THE PARTY OF THE P				Rattus norvegicus synuclein,	
				alpha (Snca), mRNA. Length	
1710	7489	NM_019169	c,General	= 1018 Rattus norvegicus carbonyl	synuclein, alpha .
•				reductase (Cbr), mRNA.	
1711	17066	NM_019170	ρ	Length = 1018	carbonyl reductase
					ESTs, Highly similar to CARBONIC ANHYDRASE IV PRECURSOR
1712	23924	NM_019174	bb	anhydrase 4 (Ca4), mRNA. Length = 1205	[R.norvegicus]
11.14	20324	1.111 010114		Rattus norvegicus ADP-	
				nbosylation-like 4 (Arl4),	
1713	24019	NM_019186	t	mRNA. Length = 1067	ADP-ribosylation-like 4
			1	Rattus norvegicus integrin- associated protein (Cd47),	
1714	22063	NM_019195	d	mRNA. Length = 1053	integrin-associated protein
				Rattus norvegicus amino-	
1715	2079	NM_019220	j,k,z	terminal enhancer of split (Aes), mRNA, Length = 1356	related to Drosophila groucho gene
17 13	2013	1144 013420	1	Rattus norvegicus solute	The state of the s
				carrier family 12, member 4	
			ļ	(Sic12a4), mRNA. Length =	lankete engine familie 42 magning 4
1716	16284	NM_019229	l,m	3726 Rattus norvegicus small	solute carrier family 12, member 4
			İ	inducible cytokine subfamily	
				A20 (Scya20), mRNA.	
1717	985	NM_019233	b,cc	Length = 816	small inducible cytokine subfamily A2

TABLE 18: 6	MXXXXX -		沙龙藤		7/117. Docket No. 44121-5019WG Dock No. 1793697.1
Socianico ID No. 4	ldenilier -	Corpini Acel Rol Soqid	Model Code :	Cons Name	Uniterio Circler Ville
1718	15503	NM_019237	k,x	Rattus norvegicus procollagen C-proteinase enhancer protein (Pcolce), mRNA. Length = 1547	procollagen C-proteinase enhancer protein
1718	15504	NM_019237	k,x	Rattus norvegicus procollagen C-proteinase enhancer protein (Pcolce), mRNA. Length = 1547	procollagen C-proteinase enhancer protein
1719	17908	NM 019242	I,v,cc, General	Rattus norvegicus interferon- related developmental regulator 1 (Ifrd1), mRNA. Length = 1736	interferon-related developmental regulator 1
1720	11218	NM 019247	c	Rattus norvegicus paired-like homeodomain transcription factor 3 (Pitx3), mRNA. Length = 1253	paired-like homeodomain transcription factor 3
				Rattus norvegicus complement component 1, q subcomponent binding protein (C1qbp), mRNA.	complement component 1, q
1721	15259	NM_019259	d,f	Length = 1124 Rattus norvegicus complement component 1, q subcomponent, beta polypeptide (C1qb), mRNA.	subcomponent binding protein
1722	21443	NM_019262	aa, General	Length = 1136  Rattus norvegicus complement component 1, q subcomponent, beta	subcomponent, beta polypeptide
1722	21444_	NM_019262	t,General	polypeptide (C1qb), mRNA. Length = 1136	complement component 1, q subcomponent, beta polypeptide
1723	117	NM_019266	o,bb	Rattus norvegicus sodium channel, voltage-gated, type VIII, alpha polypeptide (Scn8a), mRNA. Length = 6586	sodium channel, voltage-gated, type VIII, alpha polypeptide
1724	1145	NM 019280	w	Rattus norvegicus gap junction membrane channel protein alpha 5 (Gja5), mRNA. Length = 3115	gap junction membrane channel protein alpha 5
1725	22220	NM_019286	С	Rattus norvegicus Alcohol dehydrogenase 3 (Adh3), mRNA. Length = 1131 Rattus norvegicus Actin-	Alcohol dehydrogenase (class I), alpha polypeptide
1726	10015	NM_019289	i,m,t,x,Ge neral	related protein complex 1b (Arpc1b), mRNA. Length = 1430	Actin-related protein complex 1b
1726	10016	NM_019289	bb, General	Rattus norvegicus Actin- related protein complex 1b (Arpc1b), mRNA. Length = 1430	Actin-related protein complex 1b
1727	21651	NM_019296	c,f,x	Rattus norvegicus Cell division cycle control protein 2 (Cdc2a), mRNA. Length = 1184	Cell division cycle control protein 2
1728	20751	NM_019301	s	Rattus norvegicus Complement receptor related protein (Cr1), mRNA. Length = 1811	
				Rattus norvegicus solute carrier family 12, member 3 (Slc12a3), mRNA. Length =	solute carrier family 12, member 3
1729	645	NM_019345	bb	4361	Todioto Carrier rammy 12, member 3

TADLE 1:	SUMMARY :				Ally, Doctol No. 4424-5039WC Doc. No. 1793397.
Scouppie ID Ko	Manualar.	Consent Acc/ Rel Seque		Cono Namo	Unigano Ciustor VIIIo
1730	1301	NM_019349	С	Rattus norvegicus Serine/threonine kinase 2 (Stk2), mRNA. Length = 4194	Rat liver stearyl-CoA desaturase mRNA, complete cds
1731	3776	NM 019354	a,u	Rattus norvegicus Uncoupling protein 2, mitochondrial (Ucp2), mRNA. Length = 1575	Uncoupling protein 2, mitochondrial
	4592		General	Rattus norvegicus eukaryotic translation initiation factor 2, subunit 1 (alpha) (Eif2s1), mRNA. Length = 1377	eukaryotic translation initiation factor 2, subunit 1 (alpha )
1732		NM_019356		Rattus norvegicus factor- responsive smooth muscle protein (SM-20), mRNA.	factor-responsive smooth muscle
1733	1324	NM_019371	w	Length = 2825 Rattus norvegicus 14-3-3 protein beta-subtype (Ywhab), mRNA. Length =	protein  ESTs, Moderately similar to S12207
1734	19577	NM_019377	e	2756 Rattus norvegicus Testis enhanced gene transcript (Teqt), mRNA. Length = 940	hypothetical protein [M.musculus]  Testis enhanced gene transcript
1735	24626 744	NM_019381 NM_019622	p p	Rattus norvegicus espin (Espn), mRNA. Length = 2786	espin
4727	20716	NM 019623	c	Rattus norvegicus cytochrome P450 4F1 (Cyp4f1), mRNA. Length = 1977	cytochrome P450 4F1
1737	20110	NIN 019023		Rattus norvegicus beta- galactoside-binding lectin (Lgals1), mRNA. Length =	Cytocanome 1 430 41 1
1738	574	NM 019904 NM 019905	u,General	Rattus norvegicus calpactin I heavy chain (Anxa2), mRNA. Length = 1395	beta-galactoside-binding lectin Rattus norvegicus clone BB.1.4.1 unknown Glu-Pro dipeptide repeat protein mRNA, complete cds,calpactir I heavy chain,hydroxyacid oxidase 3 (medium-chain)
		NINA 040000		Rattus norvegicus hypothetical protein LOC56728 (LOC56728), mRNA. Length = 858	hypothetical protein LOC56728
1740	9096	NM_019908	1)	Rattus norvegicus parathyroid hormone receptor (LOC56813),	Typodietical protein EOC30728
1741	20457	NM_020073	i,General	mRNA. Length = 2065 Rattus norvegicus parathyroid hormone receptor (LOC56813),	parathyroid hormone receptor
1741	20458	NM_020073	General	mRNA. Length = 2065 Rattus norvegicus parathyroid hormone	parathyroid hormone receptor
1741	20460	NM_020073	General	receptor (LOC56813), mRNA. Length = 2065 Rattus norvegicus eukaryotic	parathyroid hormone receptor
1742	18713	NM_020075	r	initiation factor 5 (eIF-5) (Eif5), mRNA. Length = 3504	eukaryotic initiation factor 5 (eIF-5)
1742	18715	NM_020075	r	Rattus norvegicus eukaryotic initiation factor 5 (eIF-5) (Eif5), mRNA. Length = 3504	eukaryotic initiation factor 5 (eIF-5)

TABLE 1:	SUMMARY		2004 2004	ing William Region	Ally. Dociet No. 44221-5039XC
Segumes Segumes	identiler:	Genedit Add Rol Scolo	Modal Goroa	Cono Namo	Unitero Circles Jillo
1743	20493	NM_020076	p	Length = 1254  Rattus norvegicus kidney- specific membrane protein	3-hydroxyanthranilate 3,4- dioxygenase
1744	16375	NM_020976	9	(NX-17), mRNA. Length = .	kidney-specific membrane protein_
1745	20816	NM_021261	k,General	Rattus norvegicus thymosin, beta 10 (Tmsb10), mRNA. Length = 539 Rattus norvegicus ribosomal	thymosin beta-10
1746	15335	NM_021264	a	protein L35a (Rpl35), mRNA. Length = 348 Rattus norvegicus	ribosomal protein L35a
1747	18729	NM_021578	k,z	transforming growth factor beta-1 gene (Tgfb1), mRNA. Length = 1585 Rattus norvegicus	transforming growth factor beta-1 gene
1748	19060	NM_021587	cc	transforming growth factor- beta (TGF-beta) masking protein large subunit (Ltbp1), mRNA. Length = 6244	transforming growth factor-beta (TGF- beta) masking protein large subunit
1749	17324	NM_021593	o,General		kynurenine 3-hydroxylase
1750	19679	NM_021653	General	Rattus norvegicus Thyroxine deiodinase, type I (Dio1), mRNA. Length = 2106	Thyroxine deiodinase, type I
4750	19678	NM 021653	a,v, General	Rattus norvegicus Thyroxine deiodinase, type I (Dio1), mRNA. Length = 2106	Thyroxine deiodinase, type I
1750	19070	14M_021033	General	Rattus norvegicus putative potassium channel TWIK (Kcnk1), mRNA. Length =	
1751	19665	NM_021688	u,General	Rattus norvegicus cAMP- regulated guanine nucleotide exchange factor I (cAMP-	putative potassium channel TWIK
1752	19667	NM_021690	m	GEFI) (Epac), mRNA. Length = 3373 Rattus norvegicus	cAMP-regulated guanine nucleotide exchange factor I (cAMP-GEFI)
1754	22916	NM 021740	a	prothymosin alpha (Ptma), mRNA. Length = 1182	prothymosin alpha
1755	19710	NM_021744	t	Rattus norvegicus CD14 antigen (Cd14), mRNA. Length = 1591	CD14 antigen
1755	19711	NM_021744	t	Rattus norvegicus CD14 antigen (Cd14), mRNA. Length = 1591	CD14 antigen
1756	19712	NM_021745	r	Rattus norvegicus farnesoid X activated receptor (LOC60351), mRNA. Length = 2070	famesoid X activated receptor
1757	1962	NM_021750	j,k,y,z	Rattus norvegicus cysteine- sulfinate decarboxylase (Csad), mRNA. Length = 2413	Rattus norvegicus cca2 mRNA, complete cds
	1302	14H 021730	J,N,J,4	Rattus norvegicus cysteine- sulfinate decarboxylase (Csad), mRNA. Length =	pompioso odd
1757	19824	NM_021750	a,bb	2413 Rattus norvegicus Nopp140 associated protein (Nap65).	cysteine-sulfinate decarboxylase
1758	25198	NM_021754	h	mRNA. Length = 1980	Nopp140 associated protein

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TADLE 1: S	UMMARY			31.	"Aliy Docket No. 4921-5039W
Segrence Segrence A cold	le booking	GenBerk Acci Rel Secil	Model / Gode	Cana Namo	Pos. No. 1799997.1 Valgeno Guster Wile:
1758	20035	NM_021754	b,n,s,v, General	Rattus norvegicus Nopp140 associated protein (Nap65), mRNA. Length = 1980	Nopp140 associated protein
1759	20090	NM_021757	m	Rattus norvegicus pleiotropic regulator 1 (Plrg1), mRNA. Length = 1545 Rattus norvegicus beta	pleiotropic regulator 1
1760	17885	NM_021765	aa	prime COP (Copb), mRNA. Length = 3025 Rattus norvegicus jun B	beta prime COP
1762	20161	NM_021836	cc, General	proto-oncogene (Junb), mRNA. Length = 1035 Rattus norvegicus	jun B proto-oncogene
1764	1203	NM_021997	k,z	cytoplasmic linker 2 (Cyln2), mRNA. Length = 4847	cytoplasmic linker 2
1765	23151_	NM_022005	b	Rattus norvegicus FXYD domain-containing ion transport regulator 6 (Fxyd6), mRNA. Length = 1711 Rattus norvegicus	FXYD domain-containing ion transport regulator 6
1767	17101	NM_022179	bb	Hexokinase 3 (Hk3), mRNA. Length = 3692 Rattus norvegicus	Hexokinase 3
1767	17100	NM_022179	bb	Hexokinase 3 (Hk3), mRNA. Length = 3692 Rattus norvegicus Hepatic	Hexokinase 3
1768	20257	NM_022180	w, General	nuclear factor 4(alpha transcription factor 4) (Hnf4a), mRNA. Length = 1446	Hepatic nuclear factor 4 (alpha transcription factor 4)
4700	05000			Rattus norvegicus Hepatic nuclear factor 4(alpha transcription factor 4) (Hnf4a), mRNA. Length =	Hepatic nuclear factor 4 (alpha
1768	25699	NM_022180	<u> </u>	1446 Rattus norvegicus Hepatic nuclear factor 4(alpha transcription factor 4) (Hnf4a), mRNA. Length =	transcription factor 4)
1768	10860	NM_022180	р	1446 Rattus norvegicus topoisomerase (DNA) II	ESTs
1769	23780	NM_022183	k,x	alpha (Top2a), mRNA. Length = 6052 Rattus norvegicus resiniferatoxin-binding,	topoisomerase (DNA) II alpha
1770	20312	NM 022224	0	phosphotriesterase-related protein (Rpr1), mRNA. Length = 1050	resiniferatoxin-binding, phosphotriesterase-related protein
1771	6585	NM_022266	d,p,cc	Rattus norvegicus connective tissue growth factor (Ctgf), mRNA. Length = 2345	connective tissue growth factor
1772	17161	NM_022298		Rattus norvegicus alpha- tubulin (Tuba1), mRNA. Length = 1617	alpha-lubulin
1772	17162	NM_022298	u	Rattus norvegicus alpha- tubulin (Tuba1), mRNA. Length = 1617 Rattus norvegicus alpha-	alpha-tubulin
1772	17160	NM_022298	u	tubulin (Tuba1), mRNA. Length = 1617 Rattus norvegicus alpha-	alpha-lubulin
1772	17158	NM_022298	q	tubulin (Tuba1), mRNA. Length = 1617	alpha-tubulin

TABLE 1: 8	DIMINIA EN		He nastr	1.2 4.6	11-14117. Doctor No. 441121-5111100
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Segranco ID No 5	lidentiller	ConBank Acc	Model Godd	Come Camera Cancel	Unigene Civeter Title
1773	11454	NM 022381	i,aa, General	Rattus norvegicus Proliferating cell nuclear antigen (Pcna), mRNA. Length = 1160	Proliferating cell nuclear antigen
		NM 022381	I.General	Rattus norvegicus Protiferating cell nuclear antigen (Pcna), mRNA. Length = 1160	Proliferating cell nuclear antigen
1773	11455	NM_U22361	i,General	Rattus norvegicus quinoid dihydropteridine reductase (Qdpr), mRNA. Length =	r romerating con riddear antiger
1774	13480	NM_022390	s	1307	quinoid dihydropteridine reductase
1775	15184	NM_022391	z	Rattus norvegicus pituitary tumor-transforming 1 (Pttg1), mRNA. Length = 974	pituitary tumor transforming gene
1776	22413	NM_022392	h	Rattus norvegicus growth response protein (CL-6) (LOC64194), mRNA. Length = 2410	growth response protein (CL-6)
				Rattus norvegicus growth response protein (CL-6) (LOC64194), mRNA. Length	
1776	22414	NM_022392	n	= 2410 Rattus norvegicus macrophage galactose N- acetyl-galactosamine	growth response protein (CL-6)
1777	22499	NM_022393	t	specific lectin (MgI), mRNA. Length = 1358 Rattus norvegicus	Gal/GalNAc-specific lectin
1779	24537	NM_022399	в	calreticulin (Calr), mRNA. Length = 1882	calreticulin
1779	24539	NM_022399	у	Rattus norvegicus calreticulin (Calr), mRNA. Length = 1882	calreticulin
1780	1141	NM_022401	o,General		plectin
1781	1069	NM_022402	9	Rattus norvegicus acidic ribosomal protein P0 (Arbp), mRNA. Length = 1046 Rattus norvegicus ferritin	acidic ribosomal protein P0
1782	8211	NM_022500	j,n,s	light chain 1 (FtI1), mRNA. Length = 552 Rattus norvegicus ferritin	ferritin light chain 1
1782	8212	NM_022500	n,s	light chain 1 (Ft11), mRNA. Length = 552	ferritin light chain 1
1783	6815	NM_022503	s	cytochrome c oxidase subunit VIIa 3 (Cox7a3), mRNA. Length = 460	cytochrome c oxidase subunit VIIa 3
				Rattus norvegicus ribosomal protein L36 (Rpl36), mRNA.	
1784	4259	NM_022504	g,w	Length = 364 Rattus norvegicus survival motor neuron (Smn), mRNA.	ribosomal protein L36
1785	1611	NM_022509	j	Length = 1243 Rattus norvegicus short	survival motor neuron
1786	2236	NM_022512	y,z	chain acyl-coenzyme A dehydrogenase (Acads), mRNA. Length = 1749	short chain acyl-coenzyme A dehydrogenase
	3026		а	Rattus norvegicus ribosomal protein L27 (Rpl27), mRNA. Length = 463	ribosomal protein L27
1787	J9020	NM_022514	[ <sup>a</sup>	Irondai - 405	Impopulial biotom cei

TABLE 1: S	WINIMARY		TO S	Ting Aug	AM). Decimi No. 44021-5039WG Dec. No. 1703607.
Digo.	in in the second	Condinals Assert	Medal":	Cano Namo	Unigene Civiler Tille
				Rattus norvegicus ribosomal	
1787	3027	NM 022514	a,q,r,aa	protein L27 (Rpl27), mRNA. Length = 463	ribosomal protein L27
				Rattus norvegicus ribosomal	
1788	2696	NM 022515	a.d	protein L24 (Rpl24), mRNA.  Length = 541	ribosomal protein L24
				Rattus norvegicus ribosomal	
1788	2697	NM 022515	n,w,aa	protein L24 (Rpl24), mRNA. Length = 541	ribosomal protein L24
1700	1200.		.,,.,,	Rattus norvegicus	
				polypyrimidine tract binding protein (Ptb), mRNA. Length	
1789	3900	NM_022516	h	= 2697	polypyrimidine tract binding protein
				Rattus norvegicus ADP-	
1790	4151	NM 022518		ribosylation factor 1 (Arf1), mRNA. Length = 900	ADP-ribosylation factor 1
				Rattus norvegicus omithine	
1791	4242	NM 022521	c	aminotransferase (Oat), mRNA. Length = 1938	ornithine aminotransferase
1131	17272	022021		Rattus norvegicus platelet	
	1			endothelial tetraspan antigen- 3 (Cd151), mRNA, Length =	platelet endothelial tetraspan antigen-
1792	4412	NM_022523	•	1668	3
	1			Rattus norvegicus	
1793	6641	NM 022533	General	plasmolipin (Z49858), mRNA. Length = 1475	plasmolipin
				Rattus norvegicus cyclophilin	
1794	8097	NM 022536	a	B (Ppib), mRNA. Length = 840	cyclophilin B
1734	10037	1414 022330		Rattus norvegicus	, 3.0p. mir 2
				phosphatidate	
			1	phosphohydrolase type 2 (Ppap2), mRNA. Length =	phosphatidate phosphohydrolase type
1795	8597	NM_022538	c,r,u	871	2
				Rattus norvegicus phosphatidate	- 4
		٠		phosphohydrolase type 2	
4706	8598	NM 022538	lu l	(Ppap2), mRNA. Length = 1871	phosphatidate phosphohydrolase type  2
1795	19999	NW_022556		1071	
				Rattus norvegicus small zinc	
1796	9296	NM 022541	0	finger-like protein DDP2 (Ddp2), mRNA, Length = 494	small zinc finger-like protein DDP2
				Rattus norvegicus omithine	
		- 1		decarboxylase antizyme inhibitor (Oazi), mRNA.	omithine decarboxylase antizyme
1797	21063	NM_022585	h	Length = 4269	inhibitor
				Rattus norvegicus telomerase protein	
				component 1 (Tlp1), mRNA.	
1799	20781	NM_022591	z	Length = 8216	telomerase protein component 1
				Rattus norvegicus transketolase (Tkt), mRNA.	
1800	20803	NM_022592	n	Length = 2098	transketolase
				Rattus norvegicus enoyl hydratase-like protein,	
			1	peroxisomal (Ech1), mRNA.	enoyl hydratase-like protein,
1801	20925	NM_022594	<b>q</b>	Length = 1097 Rattus norvegicus cathepsin	peroxisomal
				B (Ctsb), mRNA. Length =	
1802	20944	NM_022597	aa	1904	cathepsin B
				Rattus norvegicus synaptojanin 2 binding	
				protein (Synj2bp), mRNA.	
1803	21024	NM_022599	o,General	Length = 5215	outer membrane protein

TABLE 0: S	ummary .		el al	n (4	Ally. Docket No. 44921-5939W0 Dock No. 1793397.1
Servoice Dio	at. Idianiilar	General Ace Rel Segidi	Model,	Como Namo	Unitare Custor Tillo
1804	2250	NM_022643	General	Rattus norvegicus Testis- specific histone 2b (Th2b), mRNA. Length = 470	ESTs, Highly similar to 0506206A histone H2B [R.norvegicus]
1805	17567	NM_022672	a,y	Rattus norvegicus ribosomal protein S14 (Rps14), mRNA. Length = 492 Rattus norvegicus H2A	ribosomal protein S14
1806	17661	NM_022674	bb	histone family, member Z (H2afz), mRNA. Length = 811	H2A histone family, member Z
				Rattus norvegicus protein phosphatase 1, regulatory (inhibitor) subunit 1A (Ppp1r1a), mRNA. Length =	protein phosphatase 1, regulatory
1807	24563	NM_022676	b	619 Rattus norvegicus protein	(inhibitor) subunit 1A
1807	24564	NM_022676	b,x	phosphatase 1, regulatory (inhibitor) subunit 1A (Ppp1r1a), mRNA. Length = 619	protein phosphatase 1, regulatory (inhibitor) subunit 1A
1808	20506	NM_022686	ı	Rattus norvegicus germinal histone H4 gene (Hist4), mRNA. Length = 377	germinal histone H4 gene
1809	20508	NM_022688	g	Rattus norvegicus preoptic regulatory factor-1 (Porf1), mRNA. Length = 689 Rattus norvegicus p105	preoptic regulatory factor-1
1810	17586	NM_022694	k	coactivator (U83883), mRNA. Length = 3166	p105 coactivator
1811	17730	NM_022697	a	Rattus norvegicus ribosomal protein L28 (Rpl28), mRNA. Length = 466	ribosomal protein L28
1811	17729	NM_022697	<b>q</b>	Rattus norvegicus ribosomal protein L28 (Rpl28), mRNA. Length = 466	ribosomal protein L28
1812	154	NM_022849	t	Rattus norvegicus crp-ductin (Crpd), mRNA. Length = 4344	crp-ductin
1813	127	NM_022855	h	Rattus norvegicus casein kinase 1 gamma 3 isoform (Csnk1g3), mRNA. Length = 2547	casein kinase 1 gamma 3 isoform
1814	152	NM 022858		Rattus norvegicus HNF- 3/forkhead homolog-1 (Hfh1), mRNA. Length = 1760	HNF-3/forkhead homolog-1
1014	152		<i>'</i>	Rattus norvegicus tricarboxylate carrier-like	The around a company of the company
1816	18101	NM_022948	z	protein (Loc65042), mRNA. Length = 2699 Rattus norvegicus	tricarboxylate carrier-like protein
1816	18103	NM_022948	u	tricarboxylate carrier-like protein (Loc65042), mRNA. Length = 2699 Rattus norvegicus putative	tricarboxylate carrier-like protein
				protein phosphatase 1 nuclear targeting subunit (Ppp1r10), mRNA, Length =	putative protein phosphalase 1
1817	21491	NM_022951	w	4131   Rattus norvegicus   phosphatidylinositol 3-kinase   (Pik3c3), mRNA, Length =	nuclear targeting subunit
1818	15742	NM_022958	у	(Pik3c3), MRNA. Length = 2752	phosphatidylinositol 3-kinase

TAILI 1: S	UMMARY				Airy. Doctor No. 43921-5033VI Doc. No. 1793397.1
Sequence D Not		Corboil Acci Rol Scolo	Model Code	Come Name	United Clear Tills
1819	9286	NM 023027	t,w	Rattus norvegicus tRNA selenocysteine associated protein (Secp43), mRNA. Length = 864	tRNA selenocystelne associated protein
1820	23215	NM 023102	z	Rattus norvegicus casein kinase 1 gamma 2 isoform (Csnk1g2), mRNA. Length = 1572	casein kinase 1 gamma 2 isoform
1821	21238	NM 024125	cc, General	Rattus norvegicus Liver activating protein (LAP,also NF-IL6, nuclear factor-IL6, previously designated TCF5) (Cebpb), mRNA. Length = 1408	Liver activating protein (LAP, also NF- IL6, nuclear factor-IL6, previously idesignated TCF5)
1821	21239	NM 024125	cc, General	Rattus norvegicus Liver activating protein (LAP,also NF-IL6, nuclear factor-IL6,	Liver activating protein (LAP, also NF- IL6, nuclear factor-IL6, previously designated TCF5)
1822	353	NM 024127	i,n, General	Rattus norvegicus DNA- damage-inducible transcript 1 (Gadd45a), mRNA. Length = 711	DNA-damage-inducible transcript 1
1822	354	NM_024127	i,n, General	Rattus norvegicus DNA- damage-inducible transcript 1 (Gadd45a), mRNA. Length = 711	DNA-damage-inducible transcript 1
1822	352	NM_024127	h,General		DNA-damage-inducible transcript 1
1823	17227	NM_024131	x	Rattus norvegicus D- dopachrome tautomerase (Ddt), mRNA. Length = 628 Rattus norvegicus DNA-	D-dopachrome tautomerase
1824	1598	NM_024134	1	damage inducible transcript 3 (Ddit3), mRNA. Length = 806	DNA-damage inducible transcript 3
1825	1162	NM_024153	d	Rattus norvegicus adrenodoxin reductase (Fdxr), mRNA. Length = 1786	adrenodoxin reductase
1826	7863	NM_024156	c	Rattus norvegicus annexin VI (Anxa6), mRNA. Length = 2739 Rattus norvegicus	Rattus norvegicus mRNA for H(+)- transporting ATPase, complete cds
1827	22079	NM_024157	x	complement factor I (Cfi), mRNA. Length = 2021	complement factor I
1828	16476	NM_024162	General	Rattus norvegicus heart fatty acid binding protein (Fabp3), mRNA. Length = 666 Rattus norvegicus heat shock 70kD protein 8	heart fatty acid binding protein
1829	17765	NM_024351	b,s,v	(Hspa8), mRNA. Length = 2073 Rattus norvegicus hairy and enhancer of split 1,	Heat shock cognate protein 70
1830	8879	NM_024360	h_	(Drosophila) (Hes1), mRNA. Length = 1453	hairy and enhancer of split 1, (Drosophila)

TABLESS	UMMARY			iki jir	Ally, Dockel No. 44821-6389W0 Doc. No. 1793897.1
Sequence ID Ko	ห เปลดเมือง	Condent According	Model	Conc Name	Unigene Civeler Tille
1831	20772	NM 024363	x	Rattus norvegicus heterogeneous nuclear ribonucleoproteins methyltransferase-like 2 (S. cerevisiae) (Hrmt1i2), mRNA. Length = 1201	heterogeneous nuclear ribonucleoproteins methyltransferase- like 2 (S. cerevisiae)
				Rattus norvegicus 3-hydroxy- 3-methylglutaryl CoA lyase (Hmgcl), mRNA. Length =	
1832	335	NM_024386 NM_024387	i.y	1390   Rattus norvegicus heme   oxygenase-2 non-reducing   isoform (Hmox2), mRNA.   Length = 1815	3-hydroxy-3-methylglutaryl CoA lyase heme oxygenase-2 non-reducing isoform
1834	21	NM_024388	cc	Rattus norvegicus immediate early gene transcription factor NGFI-B (Nr4a1), mRNA. Length = 2488	
1834	22	NM_024388	cc	Rattus norvegicus immediate early gene transcription factor NGFI-B (Nr4a1), mRNA. Length = 2488	immediate early gene transcription factor NGFI-B
1836	9929	NM_024392	f	Rattus norvegicus peroxisomal multifunctional enzyme type II (Hsd17b4), mRNA. Length = 2535 Rattus norvegicus ATP-	peroxisomal multifunctional enzyme type II
1837	3582	NM 024396	aa	A (ABC1), member 2 (Abca2), mRNA. Length =	ATP-binding cassette, sub-family A (ABC1), member 2
1838	19993	NM_024398	e,p,s,aa	Rattus norvegicus mitochondrial aconitase (nuclear aco2 gene) (Aco2), mRNA, Length = 2744	mitochondrial aconitase (nuclear aco2 gene)
1839	10789	NM_024399	0	Rattus norvegicus aspartoacylase (Aspa), mRNA. Length = 1552 Rattus norvegicus a	aspartoacylase
1840	22626	NM_024400	cc, General	disintegrin and metalloproteinase with thrombospondin motifs 1 (ADAMTS-1) (Adamts1), mRNA. Length = 4878	a disintegrin and metalloproteinase with thrombospondin motifs 1 (ADAMTS-1)
4544		NN4 024402	a Conomi	Rattus norvegicus activating transcription factor ATF-4	activating transcription factor ATF-4
1841	13633	NM_024403		Rattus norvegicus activating transcription factor ATF-4	
1841	13634 23387	NM_024403 NM_024404	g,General b,General	(Atf4), mRNA. Length = 1173 Rattus norvegicus RNA binding protein p45AUF1 (Hnrpd), mRNA. Length = 1240	activating transcription factor ATF-4  RNA binding protein p45AUF1
1843	21038	NM 024484	h,Generar	Rattus norvegicus aminolevulinic acid synthase 1 (Alas1), mRNA. Length = 2052	aminolevulinic acid synthase 1
1844	1853	NM 030826	s	Rattus norvegicus Glutathione peroxidase 1 (Gpx1), mRNA. Length = 1539	ESTs,Glutathione peroxidase 1

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VARUEN: S	UUMARY				(Any) Dockot No. 44921-5039WC Doc. No. 1793397.1
Sografico. D (Vo.	ldenilier	GenBenk Acc. Ros. Scopid	Modal Gode	Gene Namo	Vilipio Cirster IIIo
1845	15111	NM 030827	e,General		glycoprotein 330
1845	15112	NM_030827	y,z	Rattus norvegicus glycoprotein 330 (Lrp2), mRNA. Length = 15,438	glycoprotein 330
1845	15110	NM 030827	General	Rattus norvegicus glycoprotein 330 (Lrp2), mRNA. Length = 15,438 Rattus norvegicus kidney	glycoprotein 330
1846	808	NM 030837	k,m	specific organic anion transporter (Sic21a4), mRNA. Length = 2772	kidney specific organic anion transporter
				Rattus norvegicus istet cell autoantigen 1, 69 kDa (Ica1),	
1847	4057	NM_030844	k	mRNA. Length = 2094 Rattus norvegicus gro	islet cell autoantigen 1, 69 kDa
1848	1221	NM_030845	t	(Gro1), mRNA. Length = 929	gro
	1			Rattus norvegicus epithelial	·
1849	21509	NM 030847	×	membrane protein 3 (Emp3), mRNA. Length = 737	epithelial membrane protein 3
	1.000			Rattus norvegicus pyruvate	
1850	1928	NM_030872	v	dehydrogenase kinase 2 subunit p45 (PDK2) (Pdk2), mRNA. Length = 2207	pyruvate dehydrogenase kinase 2 subunit p45 (PDK2)
1851	17342	NM_030873	u	Rattus norvegicus profilin II (Pfn2), mRNA. Length = 1966	profilin II
		·		Rattus norvegicus Angiotensin II receptor, type 1 (AT1A) (Agtr1a), mRNA.	
1852	24648	NM_030985	u	Length = 1450	Angiotensin II receptor, type 1 (AT1A)
4050	25452	NM 030985	Conoral	Rattus norvegicus Angiotensin II receptor, type 1 (AT1A) (Agtr1a), mRNA. Length = 1450	
1852	25453		General	Rattus norvegicus Guanine nucleotide-binding protein beta 1 (Gnb1), mRNA.	Guanine nucleotide-binding protein
1853	21802	NM_030987	h	Length = 2837  Rattus norvegicus aldo-keto reductase family 1, member	beta 1
1854	23109	NM_031000	f,s,z	A1 (aldehyde reductase) (Akr1a1), mRNA. Length = 1124	aldo-keto reductase family 1, member A1 (aldehyde reductase)
				Rattus norvegicus 4- aminobutyrate aminotransferase (Abat),	0
1855	134	NM_031003	a,u	mRNA. Length = 1726 Rattus norvegicus angiotensin II type-1	4-aminobutyrate aminotransferase
1856	25461	NM 034000	0	receptor (Agtr1), mRNA. Length = 2156	angiotensin II type-1 receptor
1000	23401	NM_031009	<del>'</del>	Rattus norvegicus	angiotenam ii typu-1 receptor
1857	1845	NM_031010	t	arachidonate 12- lipoxygenase (Alox12), mRNA. Length = 2048	arachidonate 12-lipoxygenase
				Rattus norvegicus arachidonate 12- lipoxygenase (Alox12),	
1857	25517	NM_031010	c.t	mRNA. Length = 2048 Rattus norvegicus p38 mitogen activated protein	arachidonate 12-lipoxygenase
1858	16562	NM_031020	f	kinase (Mapk14), mRNA. Length = 3132	p38 mitogen activated protein kinase

TABLE 0: S	100			:	Ally, Dockel No. 44521-5055000 Doc. No. 1756597.1
Dro	rellirebl	GenBant Accil	Model Godo	CONTENT CANCED	Unitero Ciusto: Tille
1859 .	1480	NM 031021	f	Rattus norvegicus casein kinase II beta subunit (Csnk2b), mRNA. Length = 1964	casein kinase II beta subunit
1860	1719	NM 031024	n	Rattus norvegicus drebrin A (Dbn1), mRNA. Length = 2697	drebrin A
1861	1350	NM_031030	h	Rattus norvegicus cyclin G- associated kinase (Gak), mRNA. Length = 4454	cyclin G-associated kinase
1862	16775	NM_031031	General	Rattus norvegicus L- arginine: glycine amidinotransferase (Gatm), mRNA. Length = 2260 Rattus norvegicus guanine	L-arginine: glycine amidinotransferase
1863	691	NM_031034	w	nucleotide binding protein (G protein) alpha 12 (Gna12), mRNA. Length = 1423 Rattus norvegicus GTP-	guanine nucleotide binding protein (G protein) alpha 12
1864	15886	NM_031035	z	binding protein (G-alpha-i2) (Gnai2), mRNA. Length = 1748	GTP-binding protein (G-alpha-i2)
1866	3608	NM_031044	k,General	Rattus norvegicus histamine N-methyltransferase (Hnmt), mRNA. Length = 1225	histamine N-methyltransferase
1866	3610	NM_031044	d,General	Rattus norvegicus histamine N-methyltransferase (Hnmt), mRNA. Length = 1225 Rattus norvegicus	histamine N-methyltransferase
1867	15137	NM_031051	s	macrophage migration inhibitory factor (Mif), mRNA. Length = 551	macrophage migration inhibitory factor
1868	514	NM 031056	General	Rattus norvegicus matrix metalloproteinase 14, membrane-inserted (Mmp14), mRNA. Length = 2448	matrix metalloproteinase 14, membrane-inserted
1869	17269	NM 031057	General	Rattus norvegicus methylmalonate semialdehyde dehydrogenase gene (Mmsdh), mRNA. Length = 2059	methylmalonate semialdehyde dehydrogenase gene
1870	11849	NM_031065	a	Rattus norvegicus ribosomal protein L10a (Rpl10a), mRNA. Length = 710	ribosomal protein L10a
1871	1855	NM_031074	h	Rattus norvegicus nucleoporin 98 (Nup98), mRNA. Length = 3237	nucleoporin 98
1872	4683	NM_031083	đ	Rattus norvegicus phosphatidylinositol 4-kinase (Pik4cb), mRNA. Length = 3205 Rattus norvegicus -ral simian	phosphatidylinositol 4-kinase
1873	15202	NM_031093	a	leukemia viral oncogene homolog A (ras related) (Raia), mRNA. Length = 952 Rattus norvegicus -ral simian	#NAME?
1873	15201	NM_031093	a,n	leukemia viral oncogene homolog A (ras related) (Rala), mRNA. Length = 952	#NAME?
1874	12639	NM_031099	aa	Rattus norvegicus ribosomal protein L5 (Rpl5), mRNA. Length = 1069	ribosomal protein L5

TABLE 1: (	SUMMARY				Ally, Doctol No. 44921-518900 Doc. No. 1793597.
Sõgvõndo Komova	l Confilor	Condant Áce Rel Soq ID	Model Gode	Coro Namo	Chili letek (Chatel)
1875	20812	NM_031100	a	Rattus norvegicus ribosomal protein L10 (Rpl10), mRNA. Length = 769	ribosomal protein L10
1876	16938	NM_031103	w	Rattus norvegicus ribosomal protein L19 (Rpl19), mRNA. Length = 703	ribosomal protein L19
1877	19268	NM_031104	q	Rattus norvegicus ribosomal protein L22 (Rpl22), mRNA. Length = 465 Rattus norvegicus mRNA for	ribosomal protein L22
1878	16929	NM_031108	q	ribosomal protein S9 (Rps9), mRNA. Length = 688 Rattus norvegicus ribosomal	mRNA for ribosomal protein S9
1879	10878	NM_031110	q.bb	protein S11 (Rps11), mRNA. Length = 534 Rattus norvegicus ribosomal	ribosomal protein S11
1880	19162	NM_031111	аа	protein S21 (Rps21), mRNA. Length = 359 Rattus norvegicus ribosomal	ribosomal protein S21
1880	19161	NM_031111	a,bb	protein S21 (Rps21), mRNA. Length = 359 Rattus norvegicus ribosomal	ribosomal protein S21
1881	24615	NM_031112	а,у	protein S24 (Rps24), mRNA. Length = 466 Rattus norvegicus ribosomal	ribosomal protein S24
1882	20839	NM_031113	a,q	protein S27a (Rps27a), mRNA. Length = 552 Rattus norvegicus S-100	ribosomal protein S27a
4002	10040	NIA 02444	l,m,	related protein, clone 42C (S100A10), mRNA. Length = 573	S.100 related protein, close 420
1883	19040	NM_031114	General	Rattus norvegicus secretin receptor (Sctr), mRNA.	S-100 related protein, clone 42C
1884	16349	NM_031115	0	Length = 1796  Rattus norvegicus sulfite oxidase (Suox), mRNA.	secretin receptor
1885	1814	NM_031127	General n,q	Length = 1777  Rattus norvegicus thyroid hormone receptor alpha (Thra1), mRNA. Length = 2460	sulfite oxidase thyroid hormone receptor
				Rattus norvegicus TGFB inducible early growth response (Tieg), mRNA.	
1887	13359	NM_031135	General	Length = 3115 Rattus norvegicus thymosin beta-4 (Tmsb4x), mRNA.	TGFB inducible early growth response
1888	15052	NM_031136	а	Length = 686 Rattus norvegicus thymosin beta-4 (Tmsb4x), mRNA.	thymosin beta-4
1888	19359	NM_031136	а	Length = 686  Rattus norvegicus vimentin	EST
1889	15185	NM_031140	General	(Vim), mRNA. Length = 1796 Rattus norvegicus cytoplasmic beta-actin	vimentin
1890	21625	NM_031144	а,е	(Actx), mRNA. Length = 1128 Rattus norvegicus RAB11a,	cytoplasmic beta-actin
1891	238	NM_031152	bb	member RAS oncogene family (Rab11a), mRNA. Length = 895 Rattus norvegicus RAB11a,	RAB11a, member RAS oncogene family
1891	240	NM_031152	bb	member RAS oncogene family (Rab11a), mRNA. Length = 895	RAB11a, member RAS oncogene family

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D Kokk	(dentitier	GonDank Accor Ref. Segilb.	Model Gode	Cono Namo	Unitero Circler Ville
				Rattus norvegicus ubiquitin- conjugating enzyme E2D 3 (homologous to yeast UBC4/5) (Ube2d3), mRNA.	ubiquitin-conjugating enzyme E2D 3
1892	15277	NM_031237	9	Length = 1531	(homologous to yeast UBC4/5)
1893	18083	NM 031315	q	Rattus norvegicus acyl-CoA thioesterase 1, cytosolic (Cte1), mRNA. Length = 1591	R.norvegicus mRNA for mitochondrial very-long-chain acyl-CoA thioesterase
1893	1858	NM 031315	q	Rattus norvegicus acyl-CoA thioesterase 1, cytosolic (Cte1), mRNA. Length = 1591	R.norvegicus mRNA for mitochondrial very-long-chain acyl-CoA thioesterase,acyl-CoA thioesterase 1, cytosolic
1093	1636	14W_031313	ч	Rattus norvegicus t-complex testis expressed 1 (Tctex1),	Cytosolic
1894	15663	NM_031318	General	mRNA. Length = 698 Rattus norvegicus prolyl	t-complex testis expressed 1
1895	1422	NM_031324	bb, General	endopeptidase (Prep), mRNA. Length = 2743 Rattus norvegicus UDP- glucose dehydrogeanse	prolyl endopeptidase
1896	18597	NM_031325	g,bb	(Ugdh), mRNA. Length = 2318	UDP-glucose dehydrogeanse
1897	11259	NM_031327	i,cc, General	Rattus norvegicus cysteine rich protein 61 (Cyr61), mRNA. Length = 1871	cysteine rich protein 61
				Rattus norvegicus heterogeneous nuclear ribonucleoprotein A/B (Hnrpab), mRNA. Length =	heterogeneous nuclear
1898	4235	NM_031330	General	3061 Rattus norvegicus proteasome (prosome, macropain) 26S subunit, non- ATPase,4 (Psmd4), mRNA.	ribonucleoprotein A/B proteasome (prosome, macropain)
1899	18375	NM_031331	l,m	Length = 1334 Rattus norvegicus E-	26S subunit, non-ATPase,4
1900	3519	NM_031334	cc	cadherin (Cdh1), mRNA. Length = 4396 Rattus norvegicus ceroid-	E-cadherin
1901	20698	NM 031357	b	lipofuscinosis, neuronal 2 (Cln2), mRNA. Length = 2485	
				Rattus norvegicus Glutathione-S-transferase, alpha type (Ya) (Gsta1),	Glutathione-S-transferase, alpha type
1903	634	NM_031509	n	mRNA. Length = 1178 Rattus norvegicus Glutathione-S-transferase, alpha type (Ya) (Gsta1),	(Ya)  Giutathione-S-transferase, alpha type
1903	25525	NM_031509	n	mRNA. Length = 1178 Rattus norvegicus	(Ya)
1903	25069	NM_031509	b,n,w	Glutathione-S-transferase, alpha type (Ya) (Gsta1), mRNA. Length = 1178	
1903	635	NM_031509	z	Rattus norvegicus Giutathione-S-transferase, alpha type (Ya) (Gsta1), mRNA. Length = 1178	Glutathione-S-transferase, alpha type (Ya)
1904	848	NM_031517	t	Rattus norvegicus Met proto- oncogene (Met), mRNA. Length = 4189	Met proto-oncogene
		001017	-	Rattus norvegicus Nerve growth factor, gamma polypeptide (Ngfg), mRNA.	Nerve growth factor, gamma
1905	1872	NM_031523	а	Length = 873	polypeptide

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Sogranco [ ID.No./#.016	Nemmer .	Giibail: Agg Rei Seg ID	Model Code	Gene Mario	
1905	16245	NM_031523	a,d,u	Rattus norvegicus Nerve growth factor, gamma polypeptide (Ngfg), mRNA. Length = 873	Rattus norvegicus (clone RSKG50) kallikrein mRNA, 3' end
1905	16244	NM_031523	a	Rattus norvegicus Nerve growth factor, gamma polypeptide (Ngfg), mRNA. Length = 873	Rattus norvegicus (clone RSKG50) kallikrein mRNA, 3' end .
1906	9370	NM_031527	w	Rattus norvegicus Protein phosphatase type 1 alpha, catalytic subunit (Ppp1ca), mRNA. Length = 1392	Protein phosphatase type 1 alpha, catalytic subunit
1907	20448	NM 031530	General	Rattus norvegicus Small inducible gene JE (Scya2), mRNA. Length = 780	Small inducible gene JE
				Rattus norvegicus Small inducible gene JE (Scya2),	
1907	20449	NM_031530	General	mRNA. Length = 780 Rattus norvegicus Androsterone UDP- glucuronosyltransferase	Small inducible gene JE  Androsterone UDP-
1908	14633	NM_031533	u	(Ugt2b2), mRNA. Length = 1593 Rattus norvegicus CD36	glucuronosyltransferase
1909	16048	NM 031541	f	antigen (collagen type I receptor, thrombospondin receptor)-like 1 (scavanger receptor class B type 1) (Cd36I1), mRNA. Length = 2497	CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 1 (scavanger receptor class B type 1)
				Rattus norvegicus Cytochrome P450, subfamily 2e1 (ethanol-inducible) (Cyp2e1), mRNA. Length =	Cytochrome P450, subfamily 2e1
1910	4011	NM_031543	c.q	1624 Rattus norvegicus Cytochrome P450, subfamily 2e1 (ethanol-inducible) (Cyp2e1), mRNA. Length =	(ethanol-inducible)  Cytochrome P450, subfamily 2e1
1910	4010	NM_031543	c,q	1624 Rattus norvegicus Cytochrome P450, subfamily	(ethanol-inducible)
1910	4012	NM_031543	q	2e1 (ethanol-inducible) (Cyp2e1), mRNA. Length = 1624	Cytochrome P450, subfamily 2e1 (ethanol-inducible)
1911	28	NM_031546	General	Rattus norvegicus Regucalcin (Rgn), mRNA. Length = 1605	Regucalcin
1912	24640	NM_031548	h,cc	Rattus norvegicus Sodium channel, nonvoltage-gated 1, alpha (epithelial) (Scnn1a), mRNA. Length = 3081	Sodium channel, nonvoltage-gated 1, alpha (epithelial)
1913	17149	NM 031549	×	Rattus norvegicus Transgelin (Smooth muscle 22 protein) (Tagin), mRNA. Length = 1186	Transgelin (Smooth muscle 22 protein)
	77 140	00 1073		Rattus norvegicus Transgelin (Smooth muscle 22 protein) (Tagin), mRNA. Length =	
1913	17151	NM_031549	x	1186 Rattus norvegicus Adducin 3, gamma (Add3), mRNA.	protein)
1914	13105	NM 031552	w	3, gamma (Add3), mRNA. Length = 2246	Adducin 3, gamma

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TABLES: S				English St.	Ally, Dockel No. 44921-5339W0 Doc No. 1793397.1
Sources DNo:	ldentiler	Geneni Ace Rel Seglo	(Cocl)	Comp Name	Unigana Civistor Villa
1915	15411	NM_031559	d,r	Rattus norvegicus Camitine palmitoyltransferase 1 alpha, liver isoform (Cpt1a), mRNA. Length = 4377	Camitine palmitoyltransferase 1 alpha
1916	16164	NM_031563	a.y	Rattus norvegicus Y box protein 1 (Ybx1), mRNA. Length = 1489	Y box protein 1
1917	9621	NM_031570	bb	Rattus norvegicus ribosomal protein S7 (Rps7), mRNA. Length = 650	ribosomal protein S7
1917	9620	NM_031570	w,bb	Rattus norvegicus ribosomal protein S7 (Rps7), mRNA. Length = 650	ribosomal protein S7
1918	546	NM_031573	f	Rattus norvegicus Phosphorylase kinase, gamma 1 (Phkg1), mRNA. Length = 1388	phosphorylase kinase gamma
1919	1921	NM 031576	f	Rattus norvegicus P450 (cytochrome) oxidoreductase (Por), mRNA. Length = 2441	P450 (cytochrome) oxidoreductase
				Rattus norvegicus P450 (cytochrome) oxidoreductase	
1919	24219	NM_031576 NM_031579	i,General	(Por), mRNA. Length = 2441 Rattus norvegicus protein tyrosine phosphatase 4a1 (Ptp4a1), mRNA. Length = 2638	P450 (cytochrome) oxidoreductase protein tyrosine phosphatase 4a1
1921	770	NM 031584	k,x	Rattus norvegicus solute carrier family 22, member 2 (SIc22a2), mRNA. Length = 2152	solute carrier family 22, member 2
1922	18008	NM 031588	ec ,	Rattus norvegicus neuregulin 1 (Nrg1), mRNA. Length = 3272	potassium channel, subfamily K, member 3
1922	18005	NM 031588	h	Rattus norvegicus neuregulin 1 (Nrg1), mRNA. Length = 3272	potassium channel, subfamily K, member 3
1922	18011	NM_031588	cc, General	Rattus norvegicus neuregulin 1 (Nrg1), mRNA. Length = 3272	potassium channel, subfamily K, member 3
1923	1584	NM 031595	k	Rattus norvegicus proteasome (prosome, macropain) 26S subunit, ATPase 3 (Psmc3), mRNA. Length = 1627	proteasome (prosome, macropain) 26S subunit, ATPase 3
1924	24235	NM_031614	v	Rattus norvegicus thioredoxin reductase 1 (Txnrd1), mRNA. Length = 3360	thioredoxin reductase 1
1924	24234	NM_031614	General	Rattus norvegicus thioredoxin reductase 1 (Txnrd1), mRNA. Length = 3360	thioredoxin reductase 1
1925	1639	NM 031627	j,l,v	Rattus norvegicus nuclear receptor subfamily 1, group H, member 3 (Nr1h3), mRNA. Length = 1723	nuclear receptor subfamily 1, group H, member 3
1926	1727	NM 031642	m, General	Rattus norvegicus core promoter element binding protein (Copeb), mRNA. Length = 1356	core promoter element binding protein

TABLE 18:-8	UMMARY .				MEEDE-1929 No. 44221-2022 Foo. No. 1723227.
Sequence ID No.	ldendiler.	Goneank Acci Rel Scalo	Model Gode	Cene Name	Unitario Ciuster IIIo
1927	20766	NM_031643	у	Rattus norvegicus mitogen activated protein kinase kinase 2 (Map2k2), mRNA. Length = 1182	mitogen activated protein kinase kinase 2
1929	1993	NM 031655	k,I,m, General	Rattus norvegicus latexin (Lxn), mRNA. Length = 1087	latexin
1930	2057	NM_031660	ө	Rattus norvegicus cyclic AMP phosphoprotein, 19kD (Arpp19-pending), mRNA. Length = 339	cyclic AMP phosphoprotein, 19kD
1931	15039	NM_031672	k,General	Rattus norvegicus solute carrier family 15 (H+/peptide transporter), member 2 (Slc15a2), mRNA. Length = 3923	solute carrier family 15 (H+/peptide transporter), member 2
1932	15175	NM 031682	bb	Rattus norvegicus hydroxyacyl-Coenzyme A dehydrogenase, type II (Hadh2), mRNA. Length = 917	hydroxyacyl-Coenzyme A dehydrogenase, type II
1933	1004	NM_031685	v	Rattus norvegicus golgi SNAP receptor complex member 2 (Gosr2), mRNA. Length = 683	golgi SNAP receptor complex member
1934	19727	NM_031687	a,q,s	Rattus norvegicus ubiquitin A 52 residue ribosomal protein fusion product 1 (Uba52), mRNA. Length = 467	ubiquitin A-52 residue ribosomal protein fusion product 1
1935	20404	NM_031700	j.r.y	Rattus norvegicus claudin 3 (Cldn3), mRNA. Length = 1192	claudin 3
1935	20405	NM_031700	o,r	Rattus norvegicus claudin 3 (Cldn3), mRNA. Length = 1192	claudin 3
1936	811	NM_031705	General	Rattus norvegicus dihydropyrimidinase (Dpys), mRNA. Length = 2091	dihydropyrimidinase
1936	812	NM_031705	o,v,bb, General	Rattus norvegicus dihydropyrimidinase (Dpys), mRNA. Length = 2091	dihydropyrimidinase
1937	16204	NM_031706	q,bb	Rattus norvegicus ribosomal protein S8 (Rps8), mRNA. Length = 696	ribosomal protein S8
1937	16205	NM_031706	а,у	Rattus norvegicus ribosomal protein S8 (Rps8), mRNA. Length = 696 Rattus norvegicus	ribosomal protein S8
1938	24081	NM_031708	m	glycoprotein 110 (Gp110- pending), mRNA. Length = 1444	glycoprotein 110
1939	16918	NM_031709	a,q	Rattus norvegicus ribosomal protein S12 (Rps12), mRNA. Length = 499	ribosomal protein S12
1940	1081	NM_031712	General	Rattus norvegicus PDZ domain containing 1 (Pdzk1), mRNA. Length = 2005	PDZ domain containing 1
1941	1340	NM_031715	b,n,u,cc, General	Rattus norvegicus phosphofructokinase, muscle (Pfkm), mRNA. Length = 2757	phosphofructokinase, muscle
1942	23884	NM_031731	j.s	Rattus norvegicus alcohol dehydrogenase family 3, subfamily A2 (Aldh3a2), mRNA. Length = 2977	alcohol dehydrogenase family 3, subfamily A2

TABLE 18 S	BUMMARY				Airy. Dock of No. 44924-5039009 Doc No. 1793597.
Segueñco IDIX <b>o</b> .:	ldantiter	Gondent Ácel Rei Segi id	Modelivi Gode : 1:		This relation will receive the control of the contr
				Rattus norvegicus UDP- Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6 (B4galt6),	UDP-Gal:betaGlcNAc beta 1,4-
1943	10241	NM_031740	đ	mRNA. Length = 5729 Rattus norvegicus solute carrier family 2 (facilitated glucose transporter), member 5 (Sic2a5), mRNA.	galactosyltransferase, polypeptide 6 solute carrier family 2 (facilitated
1944	1214	NM_031741	r	Length = 2169 Rattus norvegicus solute carrier family 2 (facilitated glucose transporter),	glucose transporter), member 5
1944	1215	NM_031741	r	member 5 (Slc2a5), mRNA. Length = 2169 Rattus norvegicus activated leukocyte cell adhesion	solute carrier family 2 (facilitated glucose transporter), member 5
1945	20724	NM_031753	h	molecule (Alcam), mRNA. Length = 2866 Rattus norvegicus platelet-	activated leukocyte cell adhesion molecule
1946	20753	NM 031763	h	activating factor acetylhydrolase beta subunit (PAF-AH beta) (Pafah1b1), mRNA. Length = 1233	platelet-activating factor acetylhydrolase beta subunit (PAF-AH beta)
				Rattus norvegicus platelet- activating factor acetylhydrolase beta subunit (PAF-AH beta) (Pafah1b1),	platelet-activating factor acetylhydrolase beta subunit (PAF-AH
1946	20752	NM_031763	у	mRNA. Length = 1233 Rattus norvegicus rab acceptor 1 (prenylated) (Rabac1), mRNA. Length =	beta)
1947	14953	NM_031774	p	861 Rattus norvegicus guanine deaminase (Gda), mRNA.	rab acceptor 1 (prenylated)
1948	14184	NM_031776	t,General	Length = 1568 Rattus norvegicus guanine deaminase (Gda), mRNA.	guanine deaminase
1948	14185	NM_031776	General	Length = 1568 Rattus norvegicus NF-E2- related factor 2 (Nfe2i2),	guanine deaminase
1949	1169	NM_031789	c	mRNA. Length = 2307 Rattus norvegicus defensin beta 1 (Defb1), mRNA.	NF-E2-related factor 2  defensin beta 1
1950	16155	NM_031810 NM_031810	d,z d	Length = 416 Rattus norvegicus defensin beta 1 (Defb1), mRNA. Length = 416	defensin beta 1
				Rattus norvegicus G protein- coupled receptor kinase- associated ADP ribosylation factor GTPase-activating protein (GIT1) (Git1), mRNA.	G protein-coupled receptor kinase- associated ADP ribosylation factor
1951	17194	NM_031814	z	Length = 3236 Rattus norvegicus retinoblastoma binding protein 7 (Rbbp7), mRNA.	GTPase-activating protein (GIT1)
1952	17535	NM_031816	bb	Length = 1947 Rattus norvegicus serum- inducible kinase (Snk),	retinoblastoma binding protein 7
1953	10167	NM_031821 NM_031830	i,I,m,aa	mRNA. Length = 2781 Rattus norvegicus reggie1-1 (Flot2), mRNA. Length = 2629	serum-inducible kinase reggie1-1

TAPLET: S	UMMARY .			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ANY, Dockel No. 44924-6099WG
Sequence ID No. 4, 4,7	lieniller.		Moddia Goda	Cons (Name	Unitero Civeter Titlo
1955	22321	NM_031832	o,t,u, General	Rattus norvegicus IgE binding protein (Lgals3), mRNA. Length = 948 Rattus norvegicus sulfotransferase family 1A, phenol-preferring, member 1	IgE binding protein
1956	4748	NM_031834	e,t_	(Sult1a1), mRNA. Length = 1227	minoxidil sulfotransferase
1956	4749	NM_031834	e,t	Rattus norvegicus sulfotransferase family 1A, phenoi-preferring, member 1 (Sult1a1), mRNA. Length = 1227 Rattus norvegicus beta- alanine-pyruvate aminotransferase (AGT2),	minoxidil sulfotransferase  beta-alanine-pyruvate
1957	7914	NM_031835	ө	mRNA. Length = 2151 Rattus norvegicus vascular	aminotransferase
1958	8385	NM_031836	h	endothelial growth factor (Vegf), mRNA. Length = 645 Rattus norvegicus vascular	vascular endothelial growth factor
1958	8384	NM_031836	h	endothelial growth factor (Vegf), mRNA. Length = 645 Rattus norvegicus ribosomal	vascular endothelial growth factor
1959	10268	NM_031838	а	protein S2 (Rps2), mRNA. Length = 819 Rattus norvegicus ribosomal protein S2 (Rps2), mRNA.	ribosomal protein S2
1959	10269	NM_031838	aa	Length = 819 Rattus norvegicus ribosomal protein S2 (Rps2), mRNA.	ribosomal protein S2
1959 1960	10267	NM_031838 NM_031841	n,aa b	Length = 819 Rattus norvegicus stearoyl- CoA desaturase 2 (Scd2), mRNA. Length = 5055	nbosomal protein S2 stearoyl-CoA desaturase 2
1961	16726	NM_031855	x	Rattus norvegicus Ketohexokinase (Khk), mRNA. Length = 1342	Ketohexokinase
1962	25802	NM_031969	а	Rattus norvegicus Calmodulin 1 (phosphorylase kinase, delta) (Calm1), mRNA. Length = 3513	Calmodulin 1 (phosphorylase kinase, delta)
1962	19191	NM 031969	c	Rattus norvegicus Calmodulin 1 (phosphorylase kinase, delta) (Calm1), mRNA. Length = 3513	Calmodulin 1 (phosphorylase kinase, delta)
1962	19195	NM_031969	r_	Rattus norvegicus Calmodulin 1 (phosphorylase kinase, delta) (Calm1), mRNA. Length = 3513	Calmodulin 1 (phosphorylase kinase, delta)
1962	19190	NM_031969	p	Rattus norvegicus Calmodulin 1 (phosphorylase kinase, delta) (Calm1), mRNA. Length = 3513 Rattus norvegicus Heat	Calmodulin 1 (phosphorylase kinase, delta)
1963	17734	NM_031970	v,General	shock 27 kDa protein (Hsp27), mRNA. Length =	ESTs, Heat shock 27 kDa protein ESTs, Highly similar to S10A RAT S-
1964	1475	NM_031971	v	Rattus norvegicus Heat shock protein 70-1 (Hspa1a), mRNA. Length = 2455	100 PROTEIN, ALPHA CHAIN [R.norvegicus],Heat shock protein 70- 1

TAPLES:			Maria de la compansión	•	LATY. Docket No. 4492A-5959WG Dock No. 1793997.1
Scotonico: ID No. 3. 12.	relibrebl	Confini Aca Rei Sooid	Model Good &	evien seed one	Unigono Guster Titlo
1965	15470	NM_031978	f	Rattus norvegicus 26S proteasome, subunit p112 (PSMD1), mRNA. Length = 3089	26S proteasome, subunit p112
1966	18502	NM_031984	c	Rattus norvegicus cerebellar Ca-binding protein, spot 35 protein (Calb1), mRNA. Length = 2280	cerebellar Ca-binding protein, spot 35 protein
1967	19768	NM_031986	v.aa, General	Rattus norvegicus syntenin (Sdcbp), mRNA. Length = 2077	syntenin
1968	723	NM_032084	n	Rattus norvegicus chimerin (chimaerin) 2 (Chn2), mRNA. Length = 1118 Rattus norvegicus	chimerin (chimaerin) 2
1969	17935	NM_032615	a	membrane interacting protein of RGS16 (Mir16), mRNA. Length = 1203	membrane interacting protein of RGS16
1970	16831	NM_033095	n	Rattus norvegicus Crystallin, gamma polypeptide 4 (Crygd), mRNA. Length = 634	
1971	25468	NM_033234	c,z	Rattus norvegicus Hemoglobin, beta (Hbb), mRNA. Length = 620 Rattus norvegicus	
1971	25469	NM_033234	с	Hemoglobin, beta (Hbb), mRNA. Length = 620 Rattus norvegicus	
1971	17832	NM_033234	с,р	Hemoglobin, beta (Hbb), mRNA. Length = 620 Rattus norvegicus	Rat major beta-globin mRNA, complete cds
1971	17829	NM_033234	c,z	Hemoglobin, beta (Hbb), mRNA. Length = 620 Rattus norvegicus Malate	Rat major beta-globin mRNA, complete cds
1972	4723	NM_033235	z	dehydrogenase-like enzyme (Mdhl), mRNA. Length = 1266	Rattus norvegicus cytosolic malate dehydrogenase (Mdh) mRNA, complete cds
1973	1409	NM 033349	o.General	Rattus norvegicus Hydroxyacyl glutathione hydrolase (Hagh), mRNA. Length = 783	Rattus norvegicus round spermatid protein RSP29 gene, complete cds
				Rattus norvegicus ATP- binding cassette, sub-family	
1974	19998	NM_033352	General	D (ALD), member 2 (Abcd2), mRNA. Length = 5531 Rattus norvegicus Kidney 1	PDZ domain containing 1
1975	1410	NM_052798	d	(Kid1), mRNA. Length = 2563 Rattus norvegicus cytosolic	Rat zinc finger protein (kid-1) mRNA, complete cds
1976	15028	NM_052809	f	cysteine dioxygenase 1 (Cdo1), mRNA. Length = 1458	Rat cysteine dioxygenase mRNA, complete cds
1977	5176	NM_053297	u	Rattus norvegicus Pyruvate kinase 3 (Pkm2), mRNA. Length = 1973	Rat mRNA for pituitary pyruvate kinase
1978	7660	NM_053299	i	Rattus norvegicus ubiquitin D (Ubd), mRNA. Length = 684	ESTs, Weakly similar to polyubiquitin [R.norvegicus]
1979	5117	NM_053310		Rattus norvegicus homer, neuronal immediate early gene, 3 (Homer3), mRNA. Length = 1207	Rattus norvegicus mRNA for Vesl-3, complete cds
	1	10000 10	17	1 g	1:

VADUEN: 8	BUMMARY		7		"Ally: Docket No. 4424-5039W9 Dock No. 1793337.
Scounce. DNo. :	ldeallier	Conlini: Acci Ref. Seq ID	Modal Goda	Com Namo	isi Ualgaña Cireter Wile
1981	17473	NM_053319	a,v	Rattus norvegicus dynein, cytoplasmic, light chain 1 (Pin), mRNA. Length = 505	Rattus norvegicus protein inhibitor of neuronal nitric oxide synthase (PIN) mRNA, complete cds
				Rattus norvegicus insulin-like growth factor binding protein, acid labile subunit (Igfals),	
1982	25480	NM_053329	g	mRNA. Length = 1812	
1982	21977	NM_053329	у	Rattus norvegicus insulin-like growth factor binding protein, acid labile subunit (Igfals), mRNA. Length = 1812	Rattus norvegicus insulin-like growth factor binding protein complex acid- labile subunit gene, complete cds
1983	14926	NM_053330	f	Rattus norvegicus ribosomal protein L21 (Rpl21), mRNA. Length = 554	Rattus norvegicus ribosomal protein L21 mRNA, complete cds
1983	14929	NM_053330	e,General	Rattus norvegicus ribosomal protein L21 (Rpl21), mRNA. Length = 554	Rattus norvegicus ribosomal protein L21 mRNA, complete cds
1984	16407	NM_053332	c,e	Rattus norvegicus cubilin (intrinsic factor-cobalamin receptor) (Cubn), mRNA. Length = 10,872	Rattus norvegicus intrinsic factor-B12 receptor precursor (CUBILIN) mRNA, complete cds
1304	10401	, , , , , , , , , , , , , , , , , , ,		Rattus norvegicus regulator of G-protein signaling 19 (Rgs19), mRNA. Length =	
1985	15790	NM_053341	j,x	1607 Rattus norvegicus	regulator of G-protein signaling 19
1986	6154	NM_053356	p	procollagen, type I, alpha 2 (Col1a2), mRNA. Length = 4474	procollagen, type I, alpha 2
1987	9215	NM 053374	i	Rattus norvegicus interferon gamma inducing factor binding protein (Igifbp), mRNA. Length = 626	interferon gamma inducing factor binding protein
1988	6416	NM 053380	General	Rattus norvegicus solute carrier family 34 (sodium phosphate), member 2 (Sic34a2), mRNA. Length = 3950	solute carrier family 34 (sodium phosphate), member 2
1989	19113	NM 053395	a	Rattus norvegicus small muscle protein, X-linked (Smpx), mRNA. Length = 892	Rattus norvegicus SMPX protein (Smpx) mRNA, complete cds
				Rattus norvegicus flavin- containing monooxygenase 3 (Fmo3), mRNA. Length =	
1990	2242	NM_053433	n,General	2037 Rattus norvegicus zinc finger	flavin-containing monooxygenase 3
				protein 103 (Zfp103), mRNA.	
1991	5561	NM_053438	У	Length = 3258 Rattus norvegicus RAN,	zinc finger protein 103
1992	14670	NM_053439	n,General	member RAS oncogene family (Ran), mRNA. Length = 1084	RAN, member RAS oncogene family
1993	17102	NM_053440	w	Rattus norvegicus superiorcervical ganglia, neural specific 10 (Scgn10), mRNA. Length = 1654	superiorcervical ganglia, neural specific 10
1994	24762	NM_053442	General	Rattus norvegicus solute carrier family 8 (cationic amino acid transporter, y+ system), member 7 (Lat4), mRNA. Length = 4117	solute carrier family 8 (cationic amino acid transporter, y+ system), member 7

Table 1: 8					(AM), Dockel No. 44921-535900 Doc. No. 1793597.1
Soquateo : ID No.	ldanilar -	GinBank Acci . Rek Seq ID:		Cene Leine	Waleno Sivetor Tillo
1995	8085	NM_053453	General	Rattus norvegicus regulator of G-protein signaling protein 2 (Rgs2), mRNA. Length = 1629	regulator of G-protein signaling protein
1996	4622	NM_053463	d	Rattus norvegicus nucleobindin (Nucb), mRNA. Length = 2303	nucleobindin
,				Rattus norvegicus cytochrome c oxidase subunit IV isoform 2	,
1997	21866	NM_053472	ρ	precursor (CoxIV-2), mRNA. Length = 704 Rattus norvegicus protein	cytochrome c oxidase subunit IV isoform 2 precursor
1998	9573	NM_053475	h	tyrosine phosphatase type IVA, member 2 (Ptp4a2), mRNA. Length = 1095	protein tyrosine phosphatase type IVA, member 2
1999	16137	NM_053480	k	Rattus norvegicus DNA polymerase alpha subunit II (Pola2), mRNA. Length = 1836	DNA polymerase alpha subunit II
				Rattus norvegicus karyopherin (importin) alpha 2 (Kpna2), mRNA. Length = 1886	
2000	15556	NM_053483	у	Rattus norvegicus calcium binding protein A6 (calcyclin) (S100a6), mRNA. Length =	
2001	16394 4290	NM_053485 NM_053487	General j.y	291 Rattus norvegicus peroxisomal membrane protein Pmp26p (Peroxin-11) (Pex11a), mRNA. Length = 1194	calcium binding protein A6 (calcyclin) peroxisomal membrane protein Pmp26p (Peroxin-11)
2004	18826	NM 053523	, d	Rattus norvegicus homocysteine-inducible, endoplasmic reticulum stress- inducible, ubiquitin-like domain member 1 (Herpud1), mRNA. Length = 1857	
2005	7764	NM_053525	aa	Rattus norvégicus ATP- dependent, RNA helicase (Rok1), mRNA. Length = 2175	Rattus norvegicus rROK1L mRNA for ROK1-like protein, complete cds
2006	14199	NM 053538	c ·	Rattus norvegicus lysosomal- associated protein transmembrane 5 (Laptm5), mRNA. Length = 1309	Rattus norvegicus gcd-10\$ mRNA, complete cds
2007	1058		c,d	Rattus norvegicus isopentenyl-diphosphate delta isomerase (Idi1), mRNA. Length = 1182	Rattus norvegicus isopentenyl diphosphate:dimethylallyl diphosphate isomerase mRNA, complete cds
2008	4327	NM_053563	General	Rattus norvegicus nuclear RNA helicase, DECD variant of DEAD box family (DdxI), mRNA. Length = 1511	Rattus norvegicus nuclear RNA helicase mRNA, complete cds
2009	1342	NM_053573	h	Rattus norvegicus olfactomedin related ER tocalized protein (Olfm1), mRNA. Length = 2759	Rattus norvegicus neuronal olfactomedin-related ER localized protein (D2Sut1e) mRNA, complete cds
2010	19254		h,s	Rattus norvegicus thiol- specific antioxidant protein (Prdx5), mRNA. Length = 1414	Rattus norvegicus mRNA for thiol- specific antioxidant protein (1-Cys peroxiredoxin)

TABLE 19 C					AMY. Docket No. 44921-5019000 Doc. No. 1793997.
Segranco ID No.	leerilijer.	GenBenk Ace Ref. Seq ID	Modal Godo,	Gene Nemo	Unigene Circlet Wile
2010	19253	NM_053576	h	Rattus norvegicus thiol- specific antioxidant protein (Prdx5), mRNA. Length = 1414	Rattus norvegicus mRNA for thiol- specific antioxidant protein (1-Cys peroxiredoxin)
2011	3049	NM_053582	p,cc, General	= 1869	Rattus norvegicus gis5 mRNA for glucocorticoid-inducible protein, complete cds
2011	3050	NM 053582	o,General	Rattus norvegicus glucocorticoid-inducible protein (gis5), mRNA. Length = 1869	Rattus norvegicus gis5 mRNA for glucocorticoid-inducible protein, complete cds
2012	21423	NM 053586	s,y	Rattus norvegicus cytochrome c oxidase subunit Vb (Cox5b), mRNA. Length = 485	Rat mRNA for cytochrome c oxidase subunit VIa
2013	21445	NM_053587	t,v	Rattus norvegicus S100 calcium-binding protein A9 (calgranulin B) (S100a9), mRNA. Length = 494	Rattus norvegicus Intracellular calciur binding protein (MRP14) mRNA, complete cds
2014	20871	NM_053591	j.l	Rattus norvegicus dipeptidase 1 (Dpep1), mRNA. Length = 2179	Rat dipeptidase (dpep1) mRNA, complete cds
2014	20870	NM_053591	1	Rattus norvegicus dipeptidase 1 (Dpep1), mRNA. Length = 2179 Rattus norvegicus protein	Rat dipeptidase (dpep1) mRNA, complete cds
2015	21044	NM_053594	d	tyrosine phosphatase, receptor type, R (Ptprr), mRNA. Length = 3565	Rattus norvegicus mRNA for tyrosine phosphatase CBPTP, complete cds
2016	21709	NM_053596	k	Rattus norvegicus endothelin converting enzyme 1 (Ece1), mRNA. Length = 4469	Rat mRNA for endothelin-converting enzyme, complete cds
2016	21708	NM_053596	Z	Rattus norvegicus endothelin converting enzyme 1 (Ece1), mRNA. Length = 4469	Rat mRNA for endothelin-converting enzyme, complete cds
2017	1597	NM_053611	t	Rattus norvegicus nuclear proten 1 (Nupr1), mRNA. Length = 602	Rattus norvegicus p8 mRNA, complete cds
2018	5565	NM_053618	General	Rattus norvegicus Bardet- Biedl syndrome 2 (human) (Bbs2), mRNA. Length = 2573	Rattus norvegicus BBS2 (Bbs2) mRNA, complete cds
2019	13004	NM_053623	t	Rattus norvegicus fatty acid- Coenzyme A ligase, long chain 4 (Facl4), mRNA. Length = 4862	Rattus norvegicus mRNA for Acyl- CoA synthetase, complete cds
2020	1127	NM_053626	9	Rattus norvegicus D-amino acid oxidase (Dao1), mRNA. Length = 1646	Rattus norvegicus mRNA for D-amino acid oxidase, complete cds
2021	18644	NM_053648	n	Rattus norvegicus beta- carotene 15, 15'- dioxygenase (Bcdo), mRNA. Length = 2207 Rattus norvegicus vascular	Rattus norvegicus mRNA for beta- carotene 15,15'-dioxygenase, complete cds ESTs, Highly similar to VEGC MOUS
2022	21637	NM_053653	р	endothelial growth factor C (Vegfc), mRNA. Length = 1596	VASCULAR ENDOTHELIAL GROWTH FACTOR C PRECURSOR [M.musculus]
2023	3454	NM_053662	cc	Rattus norvegicus cyclin L (Ccnl), mRNA. Length = 2092	Rattus norvegicus cyclin ania-6a mRNA, complete cds
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শিক্ষা হৈব					: Ally: Docket No. 44974-E139WO
7	Settiluzassi	445			Dog. No. 1793997.1
Sections:	ldeniller	Coneanii Acci. Rei Seqid	Model (	Cono Namo	Vaigene Gluster Title
				Rattus norvegicus Cbp/p300-	
	41 1		9 . 0	interacting transactivator, with Glu/Asp-rich carboxy-	
2024	16121	NM 053698	h,j,z	terminal domain, 2 (Cited2), mRNA. Length = 1155	Rattus norvegicus transcription factor MRG1 mRNA, complete cds
	1.5.12.			Rattus norvegicus Cbp/p300-	
				interacting transactivator, with Glu/Asp-rich carboxy-	
2024	16122	NM 053698	h,j,z	terminal domain, 2 (Cited2), mRNA. Length = 1155	Rattus norvegicus transcription factor MRG1 mRNA, complete cds
2024	10122	14111_000000		Rattus norvegicus Kruppel-	
2025	25379	NM_053713	General	like factor 4 (gut) (Klf4), mRNA. Length = 2393	
				Rattus norvegicus Kruppel- like factor 4 (gut) (Klf4),	ESTs, Moderately similar to zinc finger
2025	13622	NM_053713	General	mRNA. Length = 2393	protein [R.norvegicus]
				Rattus norvegicus ubiquilin 1 (Ubqln1), mRNA. Length =	Rattus norvegicus mRNA for DA41,
2026	15376	NM_053747	h	2131 Rattus norvegicus	complete cds
				dipeptidylpeptidase III	
2027	1218	NM 053748	ь	(Dpp3), mRNA. Length = 2632	Rattus norvegicus mRNA for dipeptidyl peptidase III, complete cds
	1			Rattus norvegicus	
				cytochrome P450, 40 (25- hydroxyvitamin D3 1 alpha-	Rattus norvegicus 25-hydroxyvitamin
2028	1137	NM 053763	U	hydroxylase) (Cyp40), mRNA. Length = 2426	D 1-hydroxylase (CYP1) mRNA, complete cds
2020	11137	1410_033703	,	Rattus norvegicus protein	Toompioto des
				tyrosine phosphatase, non- receptor type 16 (Ptpn16),	Rattus norvegicus protein tyrosine
2029	15996	NM_053769	сс	mRNA. Length = 1104 Rattus norvegicus ubiquitin	phosphatase mRNA, complete cds Rattus norvegicus deubiquitinating
		Λ		specific protease 2 (Usp2),	enzyme Ubp69 (ubp69) mRNA,
2030	8652	NM_053774	g	mRNA. Length = 1857	complete cds
				Rattus norvegicus potassium channel, subfamily K,	
				member 6 (TWIK-2) (Kcnk6),	
2031	14664	NM_053806	General	mRNA. Length = 2243 Rattus norvegicus BCL2-	ESTs
2022	4264	NINA 052042	k	antagonist/killer 1 (Bak1), mRNA. Length = 1923	Rattus norvegicus BAK protein (Bak) mRNA, complete cds
2032	4361	NM_053812	K	Rattus norvegicus tissue	
			b,x,bb,	inhibitor of metalloproteinase 1 (Timp1), mRNA. Length =	Rattus norvegicus tissue inhibitor of metalloproteinase-1 (TIMP1), mRNA,
2034	15002	NM_053819	General	740 Rattus norvegicus tissue	complete cds
				inhibitor of metalloproteinase	Rattus norvegicus tissue inhibitor of
2034	15003	NM_053819	b.l.x.bb, General	1 (Timp1), mRNA. Length = 740	metalloproteinase-1 (TIMP1), mRNA, complete cds
				Rattus norvegicus S100 calcium-binding protein A8	Rattus norvegicus intercellular calcium
				(calgranulin A) (S100a8),	binding protein (MRP8) mRNA,
2035	16173	NM_053822	<u>t                                      </u>	mRNA. Length = 361 Rattus norvegicus clathrin,	complete cds Rat clathrin light chain (LCB2) mRNA,
2026	47454	NINA 052025	: ~	light polypeptide (Lcb) (Cltb),	complete cds,Rat clathrin light chain (LCB3) mRNA, complete cds
2036	17154	NM_053835	j,z	mRNA. Length = 982 Rattus norvegicus Fc	Irona) mician, complete cos
				receptor, IgG, low affinity III (Fcgr3), mRNA. Length =	Rat Fc-gamma receptor mRNA,
2037	20868	NM_053843	t	1318	complete cds
				Rattus norvegicus Fc receptor, IgG, low affinity III	
2037	20869	NM_053843	t	(Fcgr3), mRNA. Length =	Rat Fc-gamma receptor mRNA, complete cds
2201	120003	11.11.1	<u> </u>	1.2.2	1-2

Table 1: 8		74 TE (2)		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ally: Dockel No. 44921-508900 Doc, No. 1798897.
Sequence Made of M	ldenffier	Geneen's Acci Rei Scold	Model ,	Cono Namo	Unigene Giveter Mile
				Rattus norvegicus solute carrier family 28 (sodium- coupled nucleoside transporter), member 1 (Sic28a1), mRNA. Length =	Rattus norvegicus Sprague-Dawley sodium-dependent nucleoside transporter (rCNT1) mRNA, complete
2040	714	NM_053863	у	2401	cds
2041	19781	NM_053883	b	Rattus norvegicus dual specificity phosphatase 6 (Dusp6), mRNA. Length = 2104	Rattus norvegicus dual-specificity protein tyrosine phosphatase (rVH6) mRNA, complete cds
2041	19780	NM_053883	b	Rattus norvegicus dual specificity phosphatase 6 (Dusp6), mRNA. Length = 2104	Rattus norvegicus dual-specificity protein tyrosine phosphatase (rVH6) mRNA, complete cds
2042	1454	NM_053887	General	Rattus norvegicus mitogen activated protein kinase kinase kinase 1 (Map3k1), mRNA. Length = 5180 Rattus norvegicus cyclin-	Rattus norvegicus MAP kinase kinase kinase 1 (MEKK1) mRNA, complete cds
2043	1660	NM_053891	g	dependent kinase 5, regulatory subunit 1 (p35) (Cdk5r), mRNA. Length = 1208	Rattus norvegicus P35 mRNA, complete cds
2044	712	NM_053896	k	Rattus norvegicus aldehyde dehydrogenase family 1, subfamily A2 (Aldh1a2), mRNA. Length = 2240	Rattus norvegicus aldehyde dehydrogenase mRNA, complete cds
2045	753	NM 053897	k	Rattus norvegicus coagulation factor II (thrombin) receptor-like 1 (F2r1), mRNA. Length = 1428	Rattus norvegicus proteinase- activated receptor-2 mRNA, complete
2046	794	NM 053902	General	Rattus norvegicus kynureninase (L-kynurenine hydrolase) (Kynu), mRNA. Length = 1765	Rattus norvegicus L-kynurenine hydrolase mRNA, complete cds
2047	17937	NM 053911	f	Rattus norvegicus pleckstrin homology, Sec7 and coiled/coil domains 2 (Pscd2), mRNA. Length = 1561	Rattus norvegicus sec7B mRNA, complete cds
2048	8188	NM 053927	General	Rattus norvegicus erythrocyte membrane protein band 4.1-like 3 (Epb41I3), mRNA. Length = 4543	Rattus norvegicus mRNA for type II brain 4.1, complete cds
, , , , , , , , , , , , , , , , , , ,		033327	Concra	Rattus norvegicus endothelial differentiation, lysophosphatidic acid G- protein-coupled receptor, 2	Rattus norvegicus putative G-protein
2050	1628	NM_053936	h	(Edg2), mRNA. Length = 1543	coupled receptor GPCR91 (Gpcr91) mRNA, complete cds
2051	13954	NM_053955	General	Rattus norvegicus crystallin, mu (Crym), mRNA. Length = 1227	Rattus norvegicus CDK108 mRNA
2052	408	NM 053961	General	Rattus norvegicus endoplasmic retuclum protein 29 (Erp29), mRNA, Length = 4529	R.norvegicus mRNA encoding 45kDa protein which binds to heymann nephritis antigen gp330
2032		1 00030 I	Sonerar	Rattus norvegicus endoplasmic retuclum	
2052	19991	NM 053961	а	protein 29 (Erp29), mRNA. Length = 4529	mitochondrial aconitase (nuclear acoa gene)

TADLE 1: 6	SUMMARY				Any. Docker No. 44921-59300 Dock No. 1793397.
Sequence ID No. 34	ldentiller	Confort (Acc)	Modal) Coco =	Cono Navo	elili reterle eneghu
2052	16190	NM 053961	q	Rattus norvegicus endoplasmic retuclum protein 29 (Erp29), mRNA. Length = 4529	ESTs, Weakly similar to ECHM RAT ENOYL-COA HYDRATASE, MITOCHONDRIAL PRECURSOR [R.norvegicus]
				Rattus norvegicus endoplasmic retuclum protein 29 (Erp29), mRNA.	
2052	21355	NM_053961	j,I,y,z	Length = 4529 Rattus norvegicus ribosomal	ESTS
2055	15136	NM_053971	aa	protein L6 (Rpl6), mRNA. Length = 963 Rattus norvegicus ribosomal	R.norvegicus mRNA for ribosomal protein L6
2055	15135	NM_053971	d	protein L6 (Rpl6), mRNA. Length = 963 Rattus norvegicus eukaryotic	R.norvegicus mRNA for ribosomal protein L6
2056	1764	NM_053974	h	translation initiation factor 4E (Eif4e), mRNA. Length = 1647	R.norvegicus mRNA elF-4E
2057	1292	NM_053980	1	Rattus norvegicus ADP- ribosylation factor related protein 1 (Arfrp1), mRNA. Length = 943 Rattus norvegicus ribosomal	R.norvegicus (Sprague Dawley) ARP mRNA for ARF-related protein
2058	15468	NM_053982	q	protein S15a (Rps15a), mRNA. Length = 449	R.norvegicus mRNA for ribosomal protein S15a
2059	15642	NM_053985	General	Rattus norvegicus H3 histone, family 3B (H3f3b), mRNA. Length = 1107 Rattus norvegicus CD36	R.norvegicus mRNA for histone H3.3
2060	21066	NM_054001	t	antigen (collagen type I receptor, thrombospondin receptor)-like 2 (Cd36l2), mRNA. Length = 1938	Rat lysosomal membrane protein (LIMPII) mRNA, complete cds
2061	17326	NM_054008	0	Rattus norvegicus Rgc32 protein (Rgc32), mRNA. Length = 889	Rattus norvegicus RGC-32 (RGC-32) mRNA, complete cds
2061	17327	NM_054008	cc	Rattus norvegicus Rgc32 protein (Rgc32), mRNA. Length = 889	Rattus norvegicus RGC-32 (RGC-32 mRNA, complete cds
2061	17329	NM_054008	g,o,cc	Rattus norvegicus Rgc32 protein (Rgc32), mRNA. Length = 889	Rattus norvegicus RGC-32 (RGC-32 mRNA, complete cds
				Rattus norvegicus proteasome (prosome, macropain) subunit, beta type 6 (Psmb6), mRNA.	
2062	25253	NM_057099	j,l,m,p,z	Length = 760 Rattus norvegicus proteasome (prosome, macropain) subunit, beta	ESTs, Highly similar to
2062	22849	NM_057099	j,l	type 6 (Psmb6), mRNA. Length = 760 Rattus norvegicus A kinase (PRKA) anchor protein	PROTEASOME DELTA CHAIN PRECURSOR [R.norvegicus]  Rattus norvegicus PKC binding
2063	19657	NM_057103	b,cc	(gravin) 12 (Akap12), mRNA. Length = 5236 Rattus norvegicus UDP	protein and substrate mRNA, complete cds
2064	5492	NM_057105	w	glycosyltransferase 1 family, polypeptide A6 (Ugt1a6), mRNA. Length = 1593	ESTs,UDP-glucuronosyltransferase family, member 1
2064	15126	NM 057105	r	Rattus norvegicus UDP glycosyltransferase 1 family, polypeptide A6 (Ugt1a6), mRNA. Length = 1593	Rattus norvegicus UDP- glucuronosyltransferase UGT1A7 mRNA, complete cds,UDP- glucuronosyltransferase 1 family, member 1

TABLE 1: S					Alty, Docket No. 44921-5039W0 Doc No. 1793397.1
Sequenso ID No:	Mentifier	GonBenk Accul	Model Code 1	Cene Namo	Uniona Elveto Tillo
2064	15125	NM_057105	s	Rattus norvegicus UDP glycosyltransferase 1 family, polypeptide A6 (Ugt1a6), mRNA. Length = 1593	Rattus norvegicus UDP- glucuronosyltransferase UGT1A7 mRNA, complete cds,UDP- glucuronosyltransferase 1 family, member 1
2066	15391	NM_057114	n	Rattus norvegicus peroxiredoxin 1 (Prdx1), mRNA. Length = 882	Rat mRNA for HBP23 (heme-binding protein 23 kDa), complete cds
2067	727	NM 057123	m	Rattus norvegicus protease (prosome, macropain) 26S subunit, ATPase 1 (Psmc1), mRNA. Length = 1556	Rattus norvegicus mRNA for proteasomal ATPase (S4), complete cds
2068	915	NM_057124	s	Rattus norvegicus pyrimidinergic receptor P2Y, G-protein coupled, 6 (P2ry6), mRNA, Length = 1922 Rattus norvegicus	Rat mRNA for novel G protein-coupled P2 receptor, complete cds
2069	15151	NM_057131	k	phosphoribosyl pyrophosphate synthetase- associated protein 2 (Prpsap2), mRNA. Length = 1612	Rattus norvegicus mRNA for 41-kDa phosphoribosylpyrophosphate synthetase-associated protein, complete cds
2070	1892	NM_057144	b	Rattus norvegicus cysteine- rich protein 3 (Csrp3), mRNA. Length = 853	R.norvegicus mRNA for muscle LIM protein
2071	12333	NM 057155		Rattus norvegicus X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound (Xpnpep2), mRNA. Length = 2828	Rattus norvegicus membrane-bound aminopeptidase P mRNA, complete cds
2071	12331	NM 057155	v,General	Rattus norvegicus X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound (Xpnpep2), mRNA. Length =	Rattus norvegicus membrane-bound aminopeptidase P mRNA, complete cds
2071	12332	NM 057155		Rattus norvegicus X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound (Xpnpep2), mRNA. Length = 2828	Rattus norvegicus membrane-bound aminopeptidase P mRNA, complete cds
2072	17477	NM 057194	a,General	Rattus norvegicus phospholipid scramblase 1 (Plscr1), mRNA. Length = 1569	Rattus norvegicus phospholipid scramblase PLSCR mRNA, complete cds
2073	15408	NM_057197	p,t	Rattus norvegicus 2,4- dienoyl CoA reductase 1, mitochondrial (Decr1), mRNA. Length = 1109	Rattus norvegicus mRNA for 2,4- dienoyl-CoA reductase precursor, complete cds
2073	15409	NM_057197	t	Rattus norvegicus 2,4- dienoyl CoA reductase 1, mitochondrial (Decr1), mRNA. Length = 1109	Rattus norvegicus mRNA for 2,4- dienoyl-CoA reductase precursor, complete cds
2074	7866	NM_057198	h	Rattus norvegicus phosphoribosyl pyrophosphate amidotransferase (Ppat), mRNA. Length = 2934	Rattus norvegicus mRNA for amidophosphoribosyltransferase

vaeue,1: 9	UMMARY		\$		7.Aug. Doctol No. 44921-509000 Doc. No. 17996974
Sequence ID No. F?	Mantiflac:	Calency (Ace)	(1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Cono Namo	L.: Unitem Civeter Ville
2075	14125	NM_057208	h,j.y,z	Rattus norvegicus tropomyosin 3, gamma (Tpm3), mRNA. Length = 1101	Rattus norvegicus tropomyosin non- muscle isoform NM1 (TPM-gamma) mRNA, complete cds,Rattus norvegicus tropomyosin non-muscle isoform NM3 (TPM-gamma) mRNA, complete cds
2076	1743	NM_057210	k,s	Rattus norvegicus synaptic vesicle glycoprotein 2 a (Sv2a), mRNA. Length = 3844	Rattus norvegicus synaptic vesicle protein (SV2) mRNA, complete cds
2077	10498	NM_078617	a	Rattus norvegicus ribosomal protein S23 (Rps23), mRNA. Length = 432	R.norvegicus (Sprague-Dawley) nbosomal protein S23 mRNA
2078	8820	NM_080399	n	Rattus norvegicus Smhs1 protein (Smhs1), mRNA. Length = 1107	ESTs
2079	15701	NM_080581	j,m,y,z	Rattus norvegicus ATP- binding cassette, sub-family C (CFTR/MRP), member 3 (Abcc3), mRNA. Length = 5174	Rattus norvegicus mRNA for multidrug resistance-associated protein (MRP)- like protein-2 (MLP-2), complete cds
2079	20105	NM 080581	aa	Rattus norvegicus ATP- binding cassette, sub-family C (CFTR/MRP), member 3 (Abcc3), mRNA. Length = 5174	ESTs .
,				Rattus norvegicus N- ethylmaleimide sensitive fusion protein attachment protein alpha (Napa), mRNA.	Rattus norvegicus mRNA for alpha-
2080	16109	NM_080585	d	Length = 1505 Rattus norvegicus Neuroblastoma RAS viral (v- ras) oncogene homolog (Nras), mRNA. Length = 3350	soluble NSF attachment protein . R.norvegicus N-ras gene for p21
2081	7108	NM_080766 NM_080778	у	Rattus norvegicus nuclear receptor subfamily 2, group F, member 2 (Nr2f2), mRNA. Length = 1572	Rattus norvegicus ovalbumin upstream promoter beta nuclear receptor rCOUPb mRNA, complete cds
2083	132	NM 080782	k	Rattus norvegicus cyclin- dependent kinase inhibitor 1A (P21) (Cdkn1a), mRNA. Length = 495	Rattus norvegicus p21 (WAF1) mRNA, complete cds
2083	133	NM 080782	ı	Rattus norvegicus cyclin- dependent kinase inhibitor 1A (P21) (Cdkn1a), mRNA. Length = 495	Rattus norvegicus p21 (WAF1) mRNA, complete cds
2084	20122	a NM_080887	General	Rattus norvegicus thioredoxin-like (32kD) (Txnl), mRNA. Length = 1061	ESTs, Highly similar to thloredoxin- related protein (M.musculus)
2085	6143	NM_080892	e	Rattus norvegicus selenium binding protein 2 (Selenbp2), mRNA. Length = 1685	ESTs, Moderately similar to selenium- binding protein [H.sapiens]
2086	9952	NM_080902	h	Rattus norvegicus hypoxia Induced gene 1 (Hig1), mRNA. Length = 355 Rattus norvegicus	ESTs, Moderately similar to AF077034 1 HSPC010 [H.sapiens]
2087	17546	NM_130401	b	membrane-associated protein 17 (Map17), mRNA. Length = 816	ESTs, Moderately similar to DD96 homolog [R.norvegicus]

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Scovence ID No: :-::	idendiller	Ginenti Acci Rei Seg ID	Model Code	Gene Kame	CINT SEEUD CREEDIN
2088	21695	NM_130411	c,x	Rattus norvegicus coronin, actin binding protein 1A (Coro1a), mRNA. Length = 1386	ESTs, Weakly similar to coronin-like protein [R.norvegicus]
2089	21391	NM_130416	x,General	Rattus norvegicus annexin A7 (Anxa7), mRNA. Length = 2912	ESTs, Weakly similar to ANX4 RAT ANNEXIN IV [R.norvegicus]
2090	20694	NM_130430	General	Rattus norvegicus proteasome (prosome, macropain) 26S subunit, non- ATPase, 9 (Psmd9), mRNA. Length = 1448	EST
				Rattus norvegicus proteasome (prosome, macropain) 26S subunit, non- ATPase, 9 (Psmd9), mRNA.	
2090	19818	NM_130430	CC	Length = 1448 Rattus norvegicus proteasome (prosome, macropain) 26S subunit, non- ATPase, 9 (Psmd9), mRNA.	mitochondrial H+-ATP synthase alpha
2090	18810	NM_130430	e,s	Length = 1448  Rattus norvegicus acetyl- Coenzyme A acyttransferase 2 (mitochondrial 3-oxoacyl- Coenzyme A thiolase) (Acaa2), mRNA. Length =	subunit
2091	18293	NM_130433	g	1619	Rat mRNA for 3-oxoacyl-CoA thiolase
2092	25064	S45392	a,n		504
2093 2094	3244 25501	S63519 S63521	q q		ESTs
2095	16248	S68135	h		Rat brain glucose-transporter protein mRNA, complete cds
					ESTs, Weakly similar to HS9B RAT HEAT SHOCK PROTEIN HSP 90-
2096	18647	S69316	<b>q</b>		BETA [R.norvegicus] ESTs, Weakly similar to ABD4 MOUSE ATP-BINDING CASSETTE, SUB-FAMILY D, MEMBER 4
2097	24351	S74257	v		[M.musculus]
2098	25066	S75280	d		
2099	1460	S76054	j,l,m,x,y,G eneral		ESTs, Highly similar to K2C8 RAT KERATIN, TYPE II CYTOSKELETAL 8 [R.norvegicus]
2100	25539	S76742	v		
2101	16400	S76779	С		Rat apolipoprotein e mma ESTs, Highly similar to MLES RAT MYOSIN LIGHT CHAIN ALKALI.
2102	24469	S77858	n	,	SMOOTH-MUSCLE ISOFORM [R.norvegicus]
2103	25545	S77900	k,s		
2103	21583	S77900	k		ESTs
2104	10260	S81497	5	histamine N-	ESTs
2105	3609	S82579	k	methyltransferase	histamine N-methyltransferase Rattus norvegicus clone 15 polymeric
2106	111	U02506	U		immunoglobulin receptor mRNA, 3'UTR microsatellite repeats Rattus norvegicus Sprague Dawley
2107	14959	U03390	a.q. General		protein kinase C receptor mRNA, complete cds Rattus norvegicus Sprague-Dawley
	1	1	ł		fibrinogen B beta chain mRNA,

	SUMMARY :				Ally, Docket No. 44921-508900 Doc. No. 1793897.
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rediante Rediante	4 Manuar	Row Sould	Model Gode,	Cere Name :	Univers Giveter Title
2112	1583	U07201	s,General	Asparagine synthetase	Asparagine synthetase Rattus norvegicus New England
					Deaconess transcription factor mRNA
2113	627	U09229	h		partial cds
					Rattus norvegicus interferon inducible
	30 h			2	protein 10 (IP-10) mRNA, complete
2114	809	U17035	General	*	cds
				mini chromosome	
				maintenance deficient 6 (S.	mini chromosome maintenance
2115	16675 25587	U17565 U20110	k,x,bb	cerevisiae)	deficient 6 (S. cerevisiae)
2116	25567	020110			Rattus norvegicus nuclear receptor
2117	90	U20796	,		Rev-ErbA-beta mRNA, partial cds
2118	25589	U21718	h.aa	<del> </del>	1107 2107 1002 1111 10 1, parties 000
2119	22196	U21719	h		ESTs
					Rattus norvegicus RNA helicase with
	1				arginine-serine-rich domain mRNA,
2120	17118	U25746	s		complete cds
				Į	Rattus norvegicus UDP-
2424	4537	U27518	a b a		glucuronosyltransferase mRNA, complete cds
2121	1537	102/310	g,h,n		Rattus norvegicus Na+/Pi
2122	1558	U28504	bb		cotransporter-1 mRNA, complete cds
	1000	020007			Rattus norvegicus B/K protein mRNA,
2123	16193	U30831	n		complete cds
2124	17480	U31598	z		R.norvegicus mRNA for RT1.Ma
					Rattus norvegicus retinol
			l	1	dehydrogenase type II mRNA,
2125	18302	U33500	General		complete cds
2126	25599	U34897	у		Rattus norvegicus GTP-binding
2127	1394	U37099	h		protein (rab 3C) mRNA, complete cds
2121	11034	00,033	<del>''</del>		EST, Weakly similar to actin-filament
					binding protein Frabin
			İ		[R.norvegicus],Rattus norvegicus
					cytosolic phospholipase A2 mRNA,
2128	244	U38376	n		complete cds
	i				Rattus norvegicus Cys2/His2 zinc finger protein (rKr1) mRNA, complete
2420	1623	U41164	h		cds
2129	1023	041104	f.t.x.		1003
2130	15851	U42719	General	Complement component 4	Complement component 4
	1.000.	0.27.10			Rattus norvegicus apoptosis-
	1				regulating basic protein mRNA.
2131	17886	U47315	s,z		complete cds
			i,t,	estrogen-responsive uterine	
2132	21654	U53184	General	transcript	estrogen-responsive uterine transcript
			1		Rattus norvegicus FceRI gamma-
2133	1439	1157301	l <sub>w</sub>		chain interacting protein SH2-B (SH2-B) mRNA, complete cds
<u> </u>	1433	U57391	\ <del>''</del>	solute carrier family 16	solute carrier family 16
	1			(monocarboxylic acid	(monocarboxylic acid transporters),
2134	725	U62316	bb	transporters), mem	member 7
	1		b,cc,		
2137	2153	U75404	General		ESTs
	1		1		Rattus norvegicus cell adhesion
0400	1050		<b>]</b>		regulator (CAR1) mRNA, complete
2139	4956	U76714	j.y		cds
2140	4477	U77829	l,m	<del> </del>	Rattus norvegicus RCL (Rcl) mRNA,
2141	21703	U82591	z		complete cds
_ 171	121703	002001	-		Rattus norvegicus putative cell
2142	977	U89744	s		surface antigen mRNA, complete cds
2143	23282	U90725	h	lipoprotein-binding protein	lipoprotein-binding protein
					Rattus norvegicus liver mRNA,
	22005	U96490	m	I	complete cds

TABLE 1: S	UMIXARY 	1			( Ally). Docket No. 44921-6001440 . Dock No. 1703697.1
Sequence	44487.42-	GonBont Ace/	เพื่อสาเมื่อ	新加州·	
DNO:	Octor (Mars	Role Son ID	Grana i		Univers Christor Tillo
1005 - F-1005	lige villes.	Workered Ind. 4. 1.	COGG 5W		Contrate Consists that the
		V00004		Aldolase B, fructose-	Aldolase B, fructose-biphosphate
2146	819	X02284	j,z	biphosphate Aldolase B, fructose-	Aldolase B, Iluciose-diphosphale
	0.10	V40004	- : -		Aldelese B. faustese histocophoto
2147	818	X02291	e,j,z	biphosphate glutathione S-transferase, pi	Aldolase B, fructose-biphosphate
2440	20040	X02904		giulaulione 3-iransierașe, pr	glutathione S-transferase, pi 2
2148 2149	20818 16401	X04979	n,q c	-	Rat apolipoprotein e mma
2143	10401	A04373	-	Pyruvate kinase, liver and	· · · · · · · · · · · · · · · · · · ·
2150	20513	X05684	o,r	RBC	Pyruvate kinase, liver and RBC
2151	25084	X06769	cc		
2152	672	X13722	h	·	Rat mRNA for LDL-receptor
2153	25675	X14181	n		
					ESTs, Highly similar to 60S
			1		RIBOSOMAL PROTEIN L18A
2153	20810	X14181	n,q,w		[R.norvegicus]
					ESTs, Highly similar to RL26 RAT 60S
Z.					RIBOSOMAL PROTEIN L26
2154	18541	X14671	у		[R.norvegicus]
2155	25679	X15013	9		
					ESTs, Highly similar to RL7A_HUMAN
			[		60S RIBOSOMAL PROTEIN L7A
2155	19244	X15013	c,q,w		[R.norvegicus]
					ESTs, Highly similar to RS16_HUMAN
					40S RIBOSOMAL PROTEIN S1
2156	15626	X17665	a		[R.norvegicus]
				phospholipase A2, group IIA	phospholipase A2, group IIA
2157	1893	X51529	<u>t                                      </u>	(platelets, synovial fluid)	(platelets, synovial fluid)
2158	25686	X51536	bb		507 18 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					ESTs, Highly similar to RS3 MOUSE
					40S RIBOSOMAL PROTEIN S3
2158	10819	X51536	aa,bb		[R.norvegicus] ESTs, Highly similar to RL9 RAT 60S
					RIBOSOMAL PROTEIN L9
0450	40050	V54700		sibacamal aratain I A	[R.norvegicus]
2159	18250	X51706	a,q,w	ribosomal protein L9	ESTs, Highly similar to RS19 RAT
					40S RIBOSOMAL PROTEIN S19
2160	20872	X51707	a	ribosomal protein S19	[R.norvegicus]
2161	516	X52711	c	riscooniai proteini o ro	Rat mRNA for Mx1 protein
2162	25689	X52815	9		
	20000	7.02010			Rattus norvegicus ribosomal protein
2163	20427	X53378	w		S13 (RPS13) mRNA, 3' end
					ESTs, Highly similar to 60S
	ì			·	RIBOSOMAL PROTEIN L12
2164	18606	X53504	General		[R.norvegicus]
			d,u,		Rat mRNA for preprocathepsin D (EC
2165	1463	X54467	General		3.4.23.5)
					ESTs, Highly similar to 60S ACIDIC
	i		ľ		RIBOSOMAL PROTEIN P2
2166	24577	X55153	a,v		[R.norvegicus]
	1		İ		LOCUS NOTCH HOMOLOG
					PROTEIN 1 PRECURSOR
2167	10344	X57405	j,m	Drosophila Notch homolog 1	
			1		ESTs, Highly similar to RS18_HUMAN
	1.5.55	Lyenene	<u> </u>	1	40S RIBOSOMAL PROTEIN S18
2168	15106	X57529	g.n.q	Shannal and the 188	[R.norvegicus]
2169	5667	X58200	q.bb	ribosomal protein L23	ESTs, Highly similar to RL23_HUMAN
		1	1		60S RIBOSOMAL PROTEIN L23
2160	19644	V58200	2 4	ribosomal protein L23	[R.norvegicus]
2169	18611	X58200	a,v	inosomai proteiri L23	R.norvegicus ASI mRNA for
					mammalian equivalent of bacterial
2170	17176	X58389			large ribosomal subunit protein L22
2170 2171	17175 25702		w		raige incoornal subunit protein LZZ
2171	10109	X58465 X58465	c,q	Ribosomal protein S5	Ribosomal protein S5
~111	1.0.03	7.00-00	c,i,aa,		
2172	25705	X59375	General		
	1-0.00	1	, 20	I	

TABLE 1: E	UMMARY			1.0	Anny, Docket No. 4921-503940 Doc. No. 1793397.
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Soquance.		Condend Acc	Mocol	00	
id Ko. 🌋 .	identider :	Roi. Seg ID 🎏		Come Nature 💢	Unigane Civeter Title
2173	25709	X59737	U Comment		
2174	18354	X59859	General	decorin	decorin
2174	18355	X59859	<u> </u>	decorin	Rattus norvegicus interferon-inducible
					protein variant 10 mRNA, complete
2175	21657	X61381	General	1	cds
			bb.		
2176	25718	X62145	General	ribosomal protein L8	
					ESTs, Highly similar to RL8_HUMAN
					60S RIBOSOMAL PROTEIN L
2176	15875	X62145	a,q,v	ribosomal protein L8	[R.norvegicus]
					ESTs, Highly similar to RL3 RAT 60S RIBOSOMAL PROTEIN L3
2177	13646	X62166	bb		[R.norvegicus]
2178	25721	X62325	D		[[K:ROIVEGICUS]
2170	23/21	A02020	<del></del>		ESTs, Highly similar to HIGH
					MOBILITY GROUP PROTEIN HMG-Y
2179	16012	X62875	m,s,z		[M.musculus]
2180	25730	X63369	8		
2181	25089	X63594	General		
			œ,		
2181	25090	X63594	General		COT- US-by-S-Vis-t- DI OO UUUAAA
		•		•	ESTs, Highly similar to RL2B_HUMAN 60S RIBOSOMAL PROTEIN L23A
2402	20044	X65228	0.14		[R.norvegicus]
2182 2183	20844	X65296	n,w j.y	carboxylesterase 1	carboxylesterase 1
2184	25736	X68782	C	Carboxylesterase 1	Canoba yiesterase 1
2185	16426	X70369	c	procollagen, type III, alpha 1	procollagen, type III, alpha 1
2186	16300	X70706	U	plastin 3 (T-isoform)	plastin 3 (T-isoform)
2187	24232	X75207	C	cyclin D1	cyclin D1
				•	R.norvegicus (Sprague Dawley) alpha
2188	16272	X76456	n,p		albumin gene
2189	25741	X76489	u		
2400	22202	V70040	h	prolyl 4-hydroxylase alpha subunit	prolyl 4-hydroxylase alpha subunit
2190 2191	23302 25747	X78949 X81448	h General	Subulik	prolyf 4-flydroxylase alpha soddfilt
2131	23/4/	701440	Ochiciai		ESTs, Highly similar to K1CS RAT
	,				KERATIN, TYPE I CYTOSKELETAL
2192	24115	X81449	u		19 [R.norvegicus]
2193	25754	X89696	9		
2194	25097	X90642	y,z		
					ESTs, Highly similar to RADIATION-
			cc,		INDUCIBLE IMMEDIATE-EARLY
2195	12978	X96437	General		GENE IEX-1 [M.musculus] Rattus norvegicus mRNA Best5
2197	4594	Y07704	c		protein
£131	7334	101104	g.p.		1
2198	25777	Y08355	General	oxidative stress induced	oxidative stress induced
					Rattus norvegicus mRNA for putative
			bb,		integral membrane transport protein
2199	15986	Y09945	General		(UST1r)
					Rattus norvegicus mRNA for D6.1A
2200	20890	Y13275	k		protein
2201	21914	Y13336	đ		Rattus norvegicus DAD-1 gene
	1				R.norvegicus mRNA encoding 45kDa protein which binds to heymann
2202	406	Z11995	o.General		nephritis antigen gp330
2203	18352	Z12298	t	decorin	Idecorin
2204	17481	Z49761	k		R.norvegicus mRNA for RT1.Ma
	1		·		ESTs, Moderately similar to T17342
	1				hypothetical protein
					DKFZp586K1924.1 [H.sapiens],Heat
2205	8664	Z75029	r,v	Heat shock protein 70-1	shock protein 70-1
2206	2459	AA964755	cc		ESTs
2207	23830	AA956638	aa		ESTs
2208	6100	X73524	x	desmin	desmin

TABLE 1: S	WIMMARY "		in Maria		·· ANY: Doctor No. 44924-E039W
11/2		10 A.G.			
Signanci (D No.	ldentiter -	Geneank Acc	Model) Gode		Unigana Gretar Tilla
2209	439	Z22607	w	Bone morphogenetic protein 4	Bone morphogenetic protein 4
2210	8665	AI071965	v	Heat shock protein 70-1	ESTs, Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens],Heat shock protein 70-1
2211	155	U32681	t	crp-ductin	crp-ductin
2212	19252	AA892041	s	HMm:peroxiredoxin 5	Rattus norvegicus mRNA for thiol- specific antioxidant protein (1-Cys peroxiredoxin)
2213	15582	A1232320			Rat mitochondrial 3-hydroxy-3- methylglutaryl-CoA synthase mRNA, complete cds
2214	17541	M26125	n	Epoxide hydrolase 1 (microsomal xenobiotic hydrolase)	Epoxide hydrolase 1 (microsomal xenobiotic hydrolase)
2215	18609	M30689	i		Rat Ly6-B antigen mRNA, complete cds
2216	6262	AI177125	9	T	ESTs
2217	23859	AI072161	f		ESTs
2218	21011	H32189	е	Glutathione-S-transferase, mu type 2 (Yb2)	Glutathione-S-transferase, mu type 2 (Yb2)
2220	2572	AI177143	b		ESTs
2221	25419	M22922	a		

WO 02/095000

TABLEZ P	AYKAWAYKA	CARCOLLEGE CONTRACTOR	3: \$5.	ATTY, DOCKET NO. 44924-5039WO
			· · · · · · · · · · · · · · · · · · ·	Dos, No. 179397, (
DNO: SE	lienMer'	GenDenk Acc/ Ref. Seq. ID No. 4	Model Code	Pathways 4
1	6949	AA012785	q	
2	25098	AA108277	h,v	
3 4	17312 16882	AA108308 AA684537	0	
5	6049	AA685178	V	<del></del>
6	4426	AA685974	l,m	
7	21815	AA686423	g	
8	1600	AA686470	i	
8	1599	AA686470	i	
9	21997	AA799325	u	
10	18396	AA799330	<u>v</u>	
11	6581	AA799412	f,i	
12	16538	AA799449	k	
13 14	23294 18290	AA799472 AA799497	r .	
15	18981	AA799523	e	
16	20843	AA799545	h	
17	16993	AA799560	b	
18	16576	AA799570	d ·	
19	18361	AA799591	i	
20	17712	AA799598	Z	
22	18346	AA799718	f	
23	8768	AA799726	1	
24	11687	AA799732	w	
25	18349	AA799744	u	
26 27	17494 18360	AA799751	n General	
28	18880	AA799771 AA799801	w	
29	20998	AA799803	2	
30	21006	AA799861	c	
31	15011	AA799893	General	
32	20811	AA799899	а	
33	23202_	AA799971	General	
34	4832	AA800190	b	
35	21656	AA800202	d	
36	18433	AA800218	j,y,z	
37	6386	AA800235	U	
38 39	18442 21092	AA800258 AA800380	h,k	
40	17325	AA800587	General	·
41	13930	AA800613	cc,General	
42	21372	AA800693	v	
42	21373	AA800693	S	
43	18161	AA800701	k	
44 .	6595	AA800753	w	
45	13348	AA800928	General	
46	23115	AA801165	о,у	
47	12399	AA801307	General	
48	7543	AA801395	General	
49	24237	AA817726	t,General	
50 51	11215 5985	AA817921 AA818005	0	
52	11338	AA818016	g x	
53	2845	AA818026	k,General	
54	16756	AA818089	i,k,General	
55	17771	AA818224	e,g,p,General	
56	6522	AA818261	g,m	
57	5924	AA818359	У	
58	7806	AA818421	b,aa	
59	8237	AA818512	٧	
60	17434	AA818574	h	
61	8728	AA818615	General	
62	6054	AA818658	b,v,cc,General	

TABUE 28, F	ZAVIHWZAYS			
Sequence ID No.	ldeniii)	GenBenk Acci Rel Seg ID No.		Pathways Pathways
63	11590	AA818721	d	
64	4291	AA818741	q,General	
65	4330	AA818747	o,General	
66	19723	AA818761	v,General	
67	13684	AA818770	h,j,l,m k	
68 69	7690	AA818801 AA818875	General	
70	4952	AA818907	g,General	<del></del>
71	6094	AA818911	t	
72	10985	AA818998	o,General	
73	6120	AA819008	t	
74	2586	AA819081	С	
76	6438	AA819269	0	
77	24721	AA819306	d,w	
78	6250	AA819376	o,y	
80 81	6281 10141	AA819517 AA819526	<del> </del>	
B2	6551	AA819558	lt	
83	6723	AA819653	r	
84	14958	AA819744	aa	
85	19433	AA819776	v	
86	6204	AA819889	aa	
87	22820	AA848315	General	Purine metabolism
88	6614	AA848389	bb	
89	21125	AA848437	General	
90	23504	AA848496	9	
91	18532	AA848675	9	
92 93	21140 16128	AA848738 AA848807	С О	
94 94	22923	AA848929	g	
95	17339	AA849497	General	
96	11727	AA849518	I	
97	21275	AA849796	i,l,m,General	
98	16678	AA849827	aa	
99	8515	AA849917	е	
100	18447	AA849939	General	
101	12130	AA850037	Р	
102	23981	AA850040	x,aa	
103	13615	AA850364	t .	<u> </u>
105 106	2637	AA850893	d d	
107	22093 21766	AA850909 AA850916	c	
108	2847	AA850919	w	
109	12162	AA850975	h	
110	9514	AA850978	General	
111	3924	AA851017	e,q	
111	3925	AA851017	o,General	
112	4490	AA851184	a,k	
113	19187	AA851230	General	
114	19189	AA851237	С	
115	15386	AA851241	m a l Canami	
116 117	21462 21471	AA851261 AA851343	g.I,General General	<del> </del>
118	16902	AA851343 AA851379	p	Oxidative phosphorylation, Ubiquinone biosynthesis
119	23376	AA851392	i,x	10.00911010010
119	23377	AA851392	x	
120	13349	AA851417	General	
121	21527	AA851733	r,u	
122	4048	AA851814	i,o,u,General	
123	10561	AA851871	bb	
124	17411	AA858621	i.y	
125	1801	AA858636	k,s,x,bb	

TABUE 23 P	ATHWAYS	3		ATIY, DOCUET NE. 44944-5039W "Doc. No. 1798397
Saguance D Ko.*.'' '!!	lden(liter	Coneant Acci Rol Seq. Dive	Model Gode	Pathways 40 20 step
126	18350	AA858674	Р	
127	19484	AA858693	е	
128	6360	AA858696	d	
129	17334	AA858704	P	
130	6380	AA858758	ļ9	
131	13219	AA858759	la Conseil	
132	6384	AA858788	I,m,General	
134	13412	AA858830	p	<del></del>
135	7279	AA858892 AA858930	<del> </del>	
136	18217	AA636930	<u> </u>	Alanine and aspartate
137	5867	AA858953	v.General	metabolism,Aminoacyl-tRNA biosynthesis
138	14479	AA858969	r	metabolism, Animoacy-u (NA biosynthesis
139	6431	AA859085	†	
140	17361	AA859114	o,General	
141	21025	AA859241	General	<del> </del>
142	10076	AA859271	C	<del> </del>
143	21791	AA859333	k	<del>                                     </del>
144	16314	AA859348	cc,General	
145	18862	AA859520	f	<del>                                     </del>
146	15059	AA859545	r	
147	19894	AA859581	s	
148	14353	AA859585	h	
149	16318	AA859648	h	
150	17316	AA859652	General	
151	19067	AA859663	n,q	
152	22406	AA859680	n	
153	20599	AA859690	x	
154	14261	AA859693	u	
155	14138	AA859700	v	Porphyrin and chlorophyll metabolism
155	14139	AA859700	v	Porphyrin and chlorophyll metabolism
157	22374	AA859804		
158	22385	AA859805	b,k	
159	22773	AA859885	n	
160	22816	AA859898	k,x,z	
161	11891	AA859926	x	
162	23070	AA859942	k	
163	23121	AA859948	k	· · · · · · · · · · · · · · · · · · ·
164	23166	AA859954	cc,General	
165	18468	AA859966	aa	
166	23336	AA859981	q	Inositol phosphate metabolism
167	4222	AA860024	a,bb	
168	13974	AA860030_	u,x,General	
169	7090	AA860039	x	
170	23769	AA860055	k,x	
171	16323	AA866240	w	
172	4462	AA866264	General	
173	15884	AA866276	k	
				Phenylalanine metabolism, Tyrosine
174	17742	AA866302	c,y	metabolism
175	16333	AA866414	a,h	
176	18918	AA866444	p.q	
177	16853	AA866454	j,l,m,y,z	
178	18995	AA866459	h,m	
179	16013	AA866482	s	
180	26036	AA874849	ŗ	
181	16059	AA874857	h	
182	16069	AA874873	r	
183	21633	AA874951	f	
184	16192	AA874995	<u>w</u>	<u> </u>
185	16254	AA875025	Jan Carret	<del></del>
186	16312	AA875032	cc,General	<del> </del>
187	20701	AA875097	<u> b</u>	L

VARUES: P	ATHWAYS	C.P. A. September		Alty. Pod to: No. 44921-5099WG
				Dog. No. 1793997.1
DKO	Teilinebl	ConDank Acel; Rol Sequid No.	Model Code	Pathways 4
188	16416	AA875098	bb	
189	16419	AA875102	bb	
190	15313	AA875126	I,m,General	
191	10936	AA875146	w	
192	18084	AA875186	h	
193	15371	AA875205	u	
194	15401	AA875257	x,z	
195	15410	AA875268	p,s	Oxidative phosphorylation,Ubiquinone biosynthesis
196	15420	AA875286	f	
197	15446	AA875327	s,w	
198	7936	AA875495	b,General	
199	17314	AA875509	i,i,m	
200	24472	AA875523	k	
201	15587	AA875577	()	
202	15617	AA875620	General	
202	15618	AA875620	General	
203	5384	AA891041	f,cc,General	
204 205	24814 21930	AA891209 AA891322	lf,p ld	
	17225		h	
206 207	7522	AA891553 AA891571	i,m	
208	9071	AA891578	b	
209	19321	AA891666	u	
210	17693	AA891737	j,l,m,n,y,z	
211	17256	AA891739	General	
213	18269	AA891769	General	
214	9905	AA891774	s,bb,General	
215	17061	AA891812	d	
216	7050	AA891824	h	
217	4463	AA891831	General	
218	14289	AA891838	i	
219	20523	AA891842	r.cc	
220	17779	AA891914	g,s,z	
221	17438	AA891943	General	
222	22862	AA891944	р	
223	1159	AA891949	e,z	
224	4473	AA891965	General	
225	6362	AA892053	f,j,l,m	
226	9037	AA892066	у	
227	19469_	AA892112	General	
228	14595	AA892128	o,t,v	
229	16527	AA892154	cc	
230	4482	AA892173	bb	
231	20917	AA892238	h	
232	2357	AA892268	d	
233	18183	AA892271	h	
234	6523	AA892299	d	
236	13647	AA892367	a	
237	3473	AA892378	v	
238	17682	AA892382	j,p,s,x, General	
239	820	AA892395	g,s	Carbon fixation,Fructose and mannose metabolism,Glycolysis / Gluconeogenesis,Inositol metabolism,Pentose phosphate cycle
240	14754	AA892414	u	
241	17439	AA892446	f	
242	16469	AA892462	ρ	
243	13609	AA892468	i,General	
243	13610	AA892468	n,v,General	<del></del>
244 245	9254	AA892470	n,u	
243	11991	AA892483 AA892486	f	

vaeuez: F	ATHWAYS			Aliy, Docto No. 44921-5009 Doc No. 179397
Sequence D No ::.	reillimed)	Condenk Ace Rel Seg. ID No. 7	Model Gode	Palitways 3 + + + + + + + + + + + + + + + + + +
247	11994	AA892507	aa	
248	23888	AA892520	w	
248	23889	AA892520	h	
249	8599	AA892522	Р	
250	15154	AA892532	р	
251	17468	AA892545	r	
252	11203	AA892554	f,h	
253	18906	AA892561	a,bb,General	
254	19327	AA892562	f,j,y,z	
255	18274	AA892572	p	
256	4512	AA892578	cc	
257	15876	AA892582	w General	
258	19085	AA892598	General	<del></del>
258	19086	AA892598	General	
259	20065	AA892647	a,n	
260	20088	AA892666 AA892773	n a,ii	
261 262	17549	AA892776	f,z	
262 263	13542	AA892778	b	
200	100+2	~~03£130		Glyoxylate and dicarboxylate
264	22537	AA892799	General	metabolism,Pyruvate metabolism
204	22001	70002733	Concidi	Glyoxylate and dicarboxylate
264	22539	AA892799	v	metabolism,Pyruvate metabolism
204	22335	AAU32133	•	Glyoxylate and dicarboxylate
264	22538	AA892799	General	metabolism.Pvruvate metabolism
265	6951	AA892820	h	The state of the s
266	23322	AA892821	i,z	
267	17923	AA892843	f	
268	22871	AA892859	m	
269	9053	AA892861	p,v,General	
270	16482	AA892940	w	
271	12020	AA893035	j,y	
272	3863	AA893060	General	
273	13332	AA893080	i,General	
274	21305	AA893082	General	
275	16591	AA893191	j,z	
276	17447	AA893192	General	· ·
277	3876	AA893205	n	
278 ·	3878	AA893230	General	
279	20986	AA893242	q	Fatty acid metabolism
280	16168	AA893280	i,z,General	
281	3886	AA893289	j,m,y	
282	15209	AA893327	у	
283	17800	AA893436	cc	
284	17836	AA893626	h	
285	9084	AA893717	X	
286	22731	AA893743	d	A STATE OF THE STA
				Aminoacyl-tRNA biosynthesis, Glycine,
287	12031	AA893860	V	serine and threonine metabolism
288	17897	AA893905	k	
289	3447	AA893982	d	
290	22583	AA894009	n	<b></b>
291	10540	AA894027	<u> </u>	ļ
292	4569	AA894059	d d	
293	18419	AA894130	i i	
294	17336	AA894297	} 	
295	19120	AA894318	f,j i	-
296	19762	AA899113	U *	
297	18286	AA899219		
298	22051	AA899498	w	
298	22052 21628	AA899498 AA899563	laa	<del></del>
299				

TABUE 23: T	PATHWAYS		W1.	Ally, Posks No. 44924-6939WG Dos. No. 1796397.
Sequence .		Condent Acel Rel Seq. ID No.	Model Code	Pathways 1 ve
301	4661	AA899709	t.General	
302	21354	AA899721	q .	
303	17905	AA899762	General	
304	15231	AA899840	r	
305	23778	AA899854	c,k,x	
306	22060	AA899898	b	
307	9114	AA899951	v,General	
308	8988	AA900148	f	
309	11841	AA900247	V	<del></del>
310	4725	AA900290	General	
311 312	20988	AA900465 AA900562	o General	
313	3822	AA900863	b,g,General	
315	12420	AA901017	b	
316	4849	AA901155	s	
317	3959	AA901338	General	
318	22846	AA923982	a,d	
319	4895	AA923999	k	
320	21546	AA924188	cc,General	
321	24192	AA924210	n,General	
322	4933	AA924301	g,I,General	
323	4944	AA924405	l,General	
324	4948	AA924428	r	
325	4949	AA924432	General	
326	18891	AA924598	e	
327	22540	AA924630	v,General	Glyoxylate and dicarboxylate metabolism, Pyruvate metabolism
327	22541	AA924630	General	Glyoxylate and dicarboxylate metabolism, Pyruvate metabolism
328	14759	AA924766	k	
329	23123	AA924794	x	
330	4067	AA924813	g.p	
331	2888	AA924902	r,General d	
332 333	18130 23141	AA924964 AA925019	,	
334	23195	AA925026	General	
335	21458	AA925049	f,aa,General	
336	5073	AA925061	m	
337	14790	AA925087	o,General	
338	5089	AA925126	q	
339	23261	AA925145	k,General	
340	17363	AA925150	a	
341	23448	AA925167	1	
342	23159	AA925318	ė	
343	21500	AA925353	k	
344	22479	AA925418	t	
345	21151	AA925539	b	
346	16944	AA925541	f	
346	16945	AA925541	t	Ovidativa phosphonulation
347	17514	AA925554	i.General	Oxidative phosphorylation
348 349	5183 23189	AA925662	r,General	
350	23199	AA925844 AA925863	aa	
351	5252	AA926051	General	<del> </del>
352	22967	AA926080	h,cc	<del> </del>
353	17157	AA926129	b	
354	13411	AA926196	u,General	
355	5295	AA926247	General	
356	22928	AA926262	General	
357	8948	AA926316	r	
358	21798	AA926365	aa	
359	9942	AA942697	s	
360	6039	AA942716	x,General	

VARUE 28 F	ATHWAYS	一般物 多語	201	Aliy, Dodkel No. 44921-6039W Dos. No. 1793397
Soquence D No. (. (. (. )	ldenilier	ConBent: Acci Rel Seq. ID No		The state of the s
361		AA942745		PELINUELYSI WAR AND AND AND AND AND AND AND AND AND AND
362	23005	AA942770	g,o,w g	
363	21318	AA942774	General	<del> </del>
364	6615	AA942889	v	
365	6691	AA943028	С	
366	22142	AA943066	Р	
367	21993	AA943149	v,General	
368	9061	AA943508	General	
369	24390	AA943531	b,j,n,y	
370	13976	AA943532	f,s,x	
371	22248	AA943537	cc,General	
372	22257	AA943558	m co Concept	
373	12673	AA943773	u,cc,General	
374 375	13641	AA944154 AA944155	f	
376	2658 12770	AA944161	d	
377	20903	AA944180	i,x	
378	13507	AA944244	v	<del>                                     </del>
379	15596	AA944353	General	<del>                                     </del>
380	22681	AA944413	i,v,cc,General	
381	6711	AA944439	General	
382	14763	AA944481	i,q,General	
383	22466	AA944605	h	
384	12301	AA944727	b	
385	7023	AA944792	d,m,aa	Purine metabolism,Pyrimidine metabolism,RNA polymerase
386	22536	AA944803	bb	
387	22501	AA944811	g,l	
388	23967	AA944831	S	
389	26084	AA944922	i	
390	11974	AA944958	General	
391	22547	AA944970	aa	
392	22554	AA945076	z,General	
393	14352	AA945181	General	
395	1798	AA945569	General	
396	22050	AA945604	i,aa	
397	19731	AA945615	d,o	
398	22612	AA945624	a,General aa	
399	22618	AA945656 AA945679	v	
400 401	11871 22656	AA945818	General	
402	6720	AA945828	p	
103	22351	AA945867	m	
104	22665	AA945877	f	<del> </del>
105	24243	AA945950	b	
106	22689	AA945962	General	
107	22692	AA945986	d	
108	22696	AA945996	c,General	
108	22697	AA945996	c,o	
109	22658	AA945998	w	
110	20832	AA946040	S	Oxidative phosphorylation
111	18337	AA946046	General	
112	825	AA946108	General	
113	8639	AA946221	e,cc,General	
414	23237	AA946224	f	
415	15600	AA946250	o,aa	
116	19387	AA946275	t	
417	6351	AA946344	<u>d</u>	
418	22057	AA946348	e	
419	22069	AA946349	Conomi	
420	13962	AA946351	General	<del> </del>
121	18280	AA946361	9	
422	18944	AA946391	<u> v                                    </u>	<u> </u>

VAEUES: U	PATHIWAYS	Destruction of the state of	<u> </u>	A. 1793   Docker M. 44924-5039W   Dock Ma. 1793397
Sequence ID No.:	ldaniijar	ConBan't Acci Reil Sog. ID No. 4"	Model Gode	Pathways *
424	21410	AA946408	t	
425	643	AA946439	o,y	
426	20736	AA946443	x	
427	21878	AA946448	r	
428	21947	AA946451	bb	
429 430	17499	AA946467 AA946503	General x.General	
430 431	23360	AA955104	f,General	
432	23471	AA955162	General	
433	9452	AA955206	b.General	<u> </u>
434	23512	AA955282	General	
435	22596	AA955298	General	
436	23283	AA955391	h	
437	23546	AA955393	General	
438	12404	AA955408	b	
439	23626	AA955540	aa	
441	17540	AA955914	bb	
442	24277	AA955962	General General	
<u>443                                   </u>	19939 24000	AA955980 AA956005	i	
445	11050	AA956164	s.v	
446	498	AA956278	a.General	
447	23409	AA956294	9	
449	23773	AA956476	f,x	
450	23799	AA956530	d	
451	23800	AA956534	aa	
452	23834	AA956659	cc,General	
453	16425	AA956688	f,x	
454	23847	AA956723	S	
455	23852	AA956746	j,l,m,z	
456	5989	AA956907	g,s	
456	5990	AA956907	General	
457 459	23957	AA957123	u,General General	
458	22357	AA957264	g,l,m,p,v,cc,	
459	23314	AA957270	General	
460	23995	AA957292	a,b	
461	2702	AA957307	General	Aminoacyl-tRNA blosynthesis, Glycine, serine and threonine metabolism
462	24040	AA957422	C	Serine and uncomine metabolism
463	12478	AA957554	m	<del></del>
464	21306	AA957811	v	
465	24183	AA957889	t	
466	24178	AA957905	d	
467	17034	AA963071	е	
468	24053	AA963092	General	
469	2767	AA963201	0	
470	2022	AA963259	g	
471	2126	AA963488	d	
472	24246	AA963703	Conord	
473	2195	AA963746	General	
474 475	19370 2282	AA963797 AA964147	e	
475 476	2284	AA964152	x	
478	2350	AA964368	g,General	-
479	18830	AA964496	aa	<b>†</b>
480	2392	AA964541	b	
481	2395	AA964554	General	
482	2410	AA964589	i,aa	
483	19145	AA964613	t	
484	2424	AA964617	g	
485	3107	AA964687	General	
486	2457	AA964752	q,t	1

VABUE 28	PYAYTHIWAYS	,数据推广。则是	isation :	Aily, Docket No. 44921-5039X Doc, No. 1793397
Seguence D No. :	denilier	GenDank Acc/ Ref. Seq. ID No.	Medal Ceda	Pathways
187	6778	AA964763	b	
189	2468	AA964807	l	
			1	Glutamate metabolism, Glutathione
490	2469	AA964814	W	metabolism
491 492	12561 2326	AA964815 AA964892	aa	
493	21339	AA964962	General	
194	21390	AA964988	General	
195	12569	AA965023	g	
196	2583	AA965166	bb	
497	15885	AA965207	r .	
199	2905	AA996727	b,l,m,u,General	
500	2915	AA996782	u,bb d	
501 502	2920 19525	AA996813 AA996856	aa,General	
503	2984	AA997015	C	
504	2986	AA997028	General	
505	3145	AA997237	General	
506	19249	AA997342	m	
507	16883	AA997345	General	
508	12598	AA997362	s	
509	3470	AA997374	P	
510	3180	AA997425	Conord	
51 <b>1</b> 512	3245 3020	AA997608 AA997656	General	
513	3269	AA997800	x,aa	
514	3288	AA997877	lf	·
515	23992	AA998164	k,x	
516 .	17470	AA998264	Ь	
517	3773	AA998356	General	
518	19623	AA998422	General	
519	3572	AA998516	x	<u> </u>
520	2782	AA998565	c Comment	
521	26119 22737	AA998576 AA998660	i,r,w,General aa	
522 523	3696	AA990000 AA999030	e	
524	3079	AA999169	k,x,General	
525	3081	AA999171	e,p,r	
526	3082	AA999172	General	Glutamate metabolism, Purine metabolism
527	17337	AB000717	k	
528	1535	AB000778	а	
529	1382	AB002406	k	
530	20184	AB003753	d	
531	4312	AB010635	c,i,j,k,y,z	Mothioning motabolism
532	21666 15772	AB012214	k	Methionine metabolism
533 534	1183	AB015645 AF013144	ln ln	
535	1582	AF015911	h,z	<del></del>
536	11483	AF020618	u,cc,General	
537	20295	AF024712	aa	
538	19077	AF030358	y,z	
539	23044	AF034218	General	
540	25178	AF035955	d	
541	1564	AF035963	x,bb,General	
542	8426	AF036335	1	<del>                                     </del>
543 544	21817	AF036537 AF038571	k General	<del></del>
545	22602	AF044574	General	
546	13464	AF047707	h	† <del></del>
547	24024	AF052695	х	
548	12259	AF061266	h	
549	4589	AF062389	y,z	
550	16007	AF062594	t	L

TABUES: I	PATHWAYS			(A)67. Doctof No. 44921-5039X Doc. No. 1793397
Sequence D Ko.	ldenilier	ConDank Acc/ Ref. Sec. ID No.	Model Code	Pathweys:
551	15761	AF062741	U	
552	17426	AF073839	р	
553	18615	AF074608	s	
554	15797	AF084205	f	
555	12932	AF102552	S	ļ
556 557	18603 22733	AI007649 AI007668	r	
558	22746	A1007608	r	
559	24109	AI007725	General	
560	15848	AI007820	n,v	
561	10108	AI007857	f	
562	6804	AI007877	General	
563	20099	AI007893	f,u	
564	11368	AI007948	d	
565	15849	AI008074	h	
566	3121	AI008160	General	
567	16646	AI008190	t	
568	12683	A1008203	X	
569	22018	A1008309	b	
570 571	23917 22599	AI008441 AI008458	n General	
572	22698	A1008578	p,General	
573	14405	AI008578	r,x	**
574	4086	A1008629	x	
575	3808	A1008643	i.v.General	
576	3931	AI008697	1	
577	7785	AI008758	aa	
578	16701	AI008838	q	
579	21789	AI008930	k	
580	21895	AI008971	General	
581	410	AI008974	i,aa,General	
582	21632	AI009167	General	·
583	21596	AI009168	General	
584	22801	AI009197	General	
585	11876	A1009321	cc,General	<u> </u>
586 587	2506 6382	AI009341 AI009362	General General	
588	14370	A1009362 A1009427	k	
589	19275	A1009460	x	
590	4154	AI009467	9	
591	3464	AI009589	cc	<del></del>
592	3926	AI009592	e	
593	19358	AI009675	С	
594	22545	AI009747	9	
595	15089	AI009752	cc,General	
596	5458	A1009756	h	
597	6844	AI009770	e,r,cc	
598	15627	AI009810	aa	
599	22619	A1009825	d	
500	7857	A1009898	j,l,m,z	
501	13259	Al009946 Al010067	Conomi	
502 503	21105 24627	AI010067	General aa	-
504	12716	AI010102	General	
605	18757	AI010178	aa	
506	2912	AI010210	aa,General	<del>                                     </del>
507 507	3316	AI010237	t	· · · · · · · · · · · · · · · · · · ·
508	15644	AI010256	General	
509	657	AI010262	b	
310	3271	AI010303	b	
511	11081	AI010407	bb	
612	16521	AI010470	c,s,t,General	Porphyrin and chlorophyll metabolism
613	6927	Al010542	General	T

VABUEZ: V	SYRWWAYS	The second		A(17), Dock (10, 44924) + 505907 Dock (10, 1793397)
D No. :	ldentifier	ConBent Acci Ref. Seq. ID No:	Model Gode	Pathweys was
614	17524	AI010568	a,j,y,General	
315	6946	AI010642	n	
516	23509	AI010962	aa	
517	6044	AI011285	<u>  t</u>	
518	13855	AI011361	0	
519	21779 12534	AI011380	cc	
521 522	12629	AI011460 AI011492	e.f	
523	735	AI011560	f .	
524	3941	AI011598	General	
525	17550	AI011607	i.General	
526	10636	AI011634	e	
527	3995	AI011678	General	
528	16112	AI011706	h	
629	13354	AI011757	С	
30	12745	Al011799	cc	
331	18684	AI011812	t	
532	4205	AI011982	b	
533	6518	AI012114	General	
534	17407	AI012145	General	
635	13093	AI012177	<u>r</u>	
536	15395	AI012216	<u>                                     </u>	
637	21796	AI012221	d,General	
338	3981	AI012235	i,General	
539	6606 3417	AI012308	li,r lw	
540 541	24200	Al012337 Al012356	b.t.General	
542	7471	Al012379	CC CC	
543	7247	AI012438	g	
644	7127	AI012464	p.General	
545	3304	AI012471	b	
546	2311	AI012485	aa	
547	20817	AI012589	g,n,q	Glutathione metabolism
648	3493	AI012590	v,General	
649	8975	AI012613	General	
550	11335	AI012619	j	
651	21409	AI012637	General	
652	8015	AI012638	aa .	
553	8476	AI012647	W	
654	4232	AI012958	e,p,General	
555	23128	AI013011	General	
556	20086	AI013260	General	
357	11969	AI013273	k	
558	26147	AI013387	aa	
559	19722	AI013437 AI013508	p k	
660 661	6674	Al013568	General	
562	23145	Al013647	o,t	<del></del>
563	15130	Al013676	w	
664	7274	Al013715	aa	<del></del>
665	7276	AI013730	e	
566	7278	AI013738	y,z,aa	
667	22592	AI013740	s,x,bb,General	
668	16584	AI013765	w	
669	24143	AI013804	j,l	
570	15928	AI013829	a,General	
671	21950	AI013861	li	Valine, leucine and isoleucine degradation
672	3260	AI013875	t	
270	2708	AI013882	d,q	
673 674	8585	AI013886	<u> </u>	
	8585 7299 15904	AI013886 AI013911 AI013971	p,r,t,General General	

VABUEZ: U	PATHWAYS		: ::	Aiy. Docket No. 449214-039 Doc, No. 179839
Segrence D No. ***	reifiireil	ConBook Ace. Rev. Seq. ID No	Modal @odo	Pathways
678	19372	AI014135	aa	
679	4241	AI014140	w	
680	15247	AI014169	c,u	
681	7315	AI028831	ln .	
682	16631	AI028856	General	
683 684	23297 11326	AI028953 AI029015	b	
685	2866	AI029058	n,y	
686	12812	AI029126	General	
687	17602	Al029156	р	<u> </u>
688	7392	AI029185	aa	
689	6517	AI029264	d,k,x	
690	7639	AI029292	b	
691	3874	AI029428	i,General	
692	12819	AI029437	f	
693	7452	A1029466	r	
694	7493	A1029608	b Conord	
696	7537 2310	A1029829	o,General	ļ
697		A1029969	V	
698 699	7585 7586	AI030023 AI030024	b,n	
700	14492	AI030024 AI030091	cc	
701	10673	Al030134	f	
702	7615	AI030163	o,r	
703	2370	AI030179	General	
704	7681	AI030449	n	
705	11559	AI030472	General	
706	7665	AI030668	t,bb	
707	24222	AI030704	k	
708	10740	AI030743	h	
709	10742	AI030773	е	
711	16169	AI030932	General	
712	19527	AI030991	1	
713 714	22614 3167	AI031004 AI031012	r	
715	5350	AI043611	e a	
716	7858	AI043654	lt	
717	10784	AI043678	d	
718	9180	AI043694	aa	
719	7867	AI043695	aa	Glutamate metabolism, Purine metabolisi
720	7584	AI043724	General	
721	7895	AI043768	e	
722	7903	AI043805	General	
723	7913	AI043849	cc	ļ. <u></u>
724	3899	AI043904	<u> </u>	
725	6766	AI043914	I Conner	
726	10818	AI043990	g,I,m,General	<del> </del>
727 728	7956 5393	AI044018 AI044170	<u> </u>	
729	5398	AI044170	IP	<del></del>
730	5425	AI044237	a,d	
731	8692	AI044247	r	
732	5430	AI044253	<del> </del>	
733	5461	AI044338	g.p,General	
734	5464	AI044345	i	
735	3359	AI044347	aa	
737	2695	AI044396	b	
738	5494	AI044425	General	
740	9882	AI044588	j,m	
741	5575	A1044688	9	
742	2348	AI044794	General	
743	18205 5626	A1044836 A1044864	n lu	

VABLE 22: U	PATHWAYS	A Care de la	grist jaro	A <b>lisy. Doelet No. 44524-5089</b> 00 Doe, No. 1793907
Seguence D No. 7:	lelentifier	Condan's Acci.	Model Gode	Pallaways
745	5630	AI044869	f	
746	5634	AI044883	General	
747	4047	AI044947	i,m	
48	5654	AI044976	w	
49	5684	AI045056	r	
750	19235	A1045074	General	
51	5689	AI045075	i,aa,General	
52	5711	AI045151	General	<del></del>
<sup>753</sup>	19237 9964	AI045153 AI045161	f c	
754 755	5735	AI045161	<del> </del>	
<sup>'56</sup>	5474	AI045477	a.General	
757	5811	A1045502	d,e	
'58	5819	AI045537	General	
'59	5839	AI045594	i i	
60	6808	A1045600	S	
'61	17755	AI045608	У	
63	10020	AI045632	а	
64	5855	A1045669	General	
65	5881	AI045789	<u> </u>	
66	5897	AI045862	General	
67	5900	A1045866	y,z	<del> </del>
68	7540	A1045882	o,t,General	
769 70	5329 15093	AI045970 AI058285	d	
71	8002	A1058304	li .	
72	8017	AI058341	ic	
73	6828	AI058359	General	
74	8177	AI058603	aa	
75	3090	AI058730	aa	
76	10093	AI058746	9	
77	8143	AI058759	General	
78	18659	AI058762	f	
79	8163	AI058837	aa	
80	4789	AI058889	General	
81	8221	AI059061	General	
82	10159	AI059147	d	·
83	8245	AI059154 AI059290	h n	
'84 '85	8283 8314	AI059290 AI059386	g,General	
'86	10200	A1059444	i g,General	
87	8347	AI059519	3	
88	18359	AI059675	n	
89	10281	AI059947	b,t	
90	8494	AI059968	aa	
91	8495	AI059971	General	
92	8496	AI059974	General	
93	10289	AI060053	li .	
94	8548	AI060176	k	
95	8565	AI060236	lt	
96	18322	AI060279	i,y,z	
'97 '98	8745 8785	AI069939	lr	
98	17506	A1070067 A1070068	cc	
99	9067	AI070087	General	
301	3551	AI070122	e	<del> </del>
302	4967	AI070179	k	
303	18	AI070195	General	
304	24197	AI070314	General	
305	8869	AI070330	r	
306	8874	AI070336	b,cc	
307	10417	At070410	m	
308	8901	AI070419	aa	

vabube: U	PATHWAYS	in the difference of the second		. Aliy, Docket No. 44921-500900 Doc. No. 1749397
Sequence ID No.	ldentiller	GenBank Acel Ref. Seq. ID No.	: Model Gode	Pathways 2.
809	14424	AI070421	I,p,General	
810	10434	AI070497	General	
811	8927	AI070523	V	
B12	8946	A1070611	9	
B13	8950	AI070621	W	
B14	8972	A1070673	General	
B15	8981	A1070715	bb	ļ
816 817	26184 3007	AI070784 AI070824	i,l w	
B18	8999	AI070839	p	
B19	10477	AI070868	e.f	
B20	24301	AI070911	k	<del></del>
B21	8721	AI071024	General	
822	9212	AI071098	x	•
823	1831	AI071137	С	
324	11005	AI071139	r	
825	9104	AI071173	j,m	
326	9583	AI071185	General	
327	9644	AI071410	c	
828	16058	AI071490	General	Sphingoglycolipid metabolism
829	11057	AI071509	f,o	
831	5695	AI071566	bb	<u> </u>
832	9671	AI071568	W Conord	
333	22929	AI071578	General General	
834 835	9673 9699	AI071581 AI071646	General	
337 337	9799	AI071046 AI072008	q,y,z	
338	9808	A1072050	d	
839	22796	AI072213	General	
840	9271	AI072405	v	
841	10869	AI072425	w	
842	21797	AI072439	General	
843	9306	AI072521	r	
844	9312	AI072550	Ji	
845	10893	AI072559	x	
846	1501	AI072634	cc,General	·
847	6548	A1072658	General	
848	9363	AI072695	d	<u> </u>
850	9409	AI072841	n	
851	9410	A1072842	W   General	
852 853	9468 9518	AI073021 AI073223	General	
854	11183	AI100768	1	Nitrogen metabolism
B55	9190	AI100705	e	Transger measonsm
856	2029	AI100842	lp -	
B57	5687	AI101006	e	
858	15192	AI101099	g,cc	
859	17399	Al101157	0	
860	9339	AI101160	I,m,o	
861	6321	AI101256	General	
362	5421	Al101270	C	
363	11910	AI101323	General	
364	23140	AI101608	le	
365	4119	AI101901	General	
866	16324	AI102009	b	
867	18642	AI102023	0	
868 869	19373 7051	AI102044 AI102055	h h	
870	6544	AI102055 AI102064	c	
B71	10227	AI102004	w	
872	23849	AI102248	e,q	
873	11954	AI102505	g.j.s	Oxidative phosphorylation
B74	2125	AI102519	c,k	

TABLE 28 (	PATHWAYS	Sept. Sept.		: Aliy: Docket No. 44221-50890 Doc. No. 1792897.
Sequence DKo	ldenlifier	Combank Acel Rol Sog ID No. :-	(Model) <b>C</b> ode	Pelliways
875	5967	Al102520	у	
875	5969	Al102520	p,w	
876	11563	A1102560	General	
877	15190	AI102562	b,g,n,p,v	
878	19769	AI102570	bb	
879 880	22487 19011	AI102578 AI102618	General General	
B81	23837	Al102620	q,t	· · · · · · · · · · · · · · · · · · ·
882	23538	AI102020	g,General	
883	17234	AI102741	C	
B84	5891	Al102745	k	-
885	6796	AI102753	General	
886	8837	AI102849	0,p	
887	15861	AI102868	i	
888	3533	AI102877	9	
889	13222	AI102977	General	
890	6806	AI103018	o,u	
891	10659	AI103059	w,cc,General	
892	17400	AI103097	e	
893	3584	AI103106	x,aa	<del></del>
894	13298	AI103143 AI103150	r : u	
895	15981 3475		i,x w	
896 898	23619	AI103245 AI103314		
399	24181	Al103314	e e	
901	4355	A1103410	General	
902	7622	AI103472	General	
903	20918	AI103552	n	
904	21579	AI103572	General	· · · · · · · · · · · · · · · · · · ·
905	2222	AI103631	0	
906	2752	AI103641	в	
907	4856	AI103708	i	
908	8990	AI103719	l,m,y,z	
909	15942	AI103738	r	
910	22885	AI103828	e,General	
911	15853	AI10384 <u>1</u>	×	
912	15050	AI103911	j.y	Oxidative phosphorylation
913	12376	AI103939	u ·	
914	22271	AI103947	o,y	Ouldethin about a delice
915	20833	AI104035	f,q w	Oxidative phosphorylation
916 917	7010	Al104099 Al104251		
918	22101	A1104251 A1104258	General General	
919	22211	AI104279		
920	10720	Al104296	lg,m II	
21	15416	AI104230	i	<u> </u>
922	10991	AI104342	a	
923	18831	AI104357	p	
924	7223	AI104373	e	
25	23574	AI104520	e,g,s	Oxidative phosphorylation
26	18509	Al104528	q	
27	11680	AI104605	V	
928	12342	AI104658	w	
29	23689	AI104685	r	
30	15377	AI104821	0,00	
931	18451	Al104897 Al104953	General	Oxidative phosphorylation, Type III protein
932	18451 24375	Al104953	o,s n,General	secretion system
934	18278	AI104979 AI105080	bb	
935	2196	AI105080	g	
936	5199	AI105272	bb,General	
337	12901	AI105301	o,s	

TABUE 23 U	ZAYTHWAYE		· \$	Ality, Doctol (No. 4492) 459397 Doct (No. 1793397
Ecquence	ldeniiler	Conbank Ace Ref. Seq. ID No. :	Model Gode	Palliways 4
938	7700	AI105383	cc,General	
939	13343	AI105398	u	
940	22931	Al105417	e,General	
				Fatty acid metabolism,Lysine
941	23596	Al105435	bb	degradation, Tryptophan metabolism
942	15893	AI105465	0	
943	12660	Al111492	C	
944	4479	Al111599	General	
945	24211	Al111853	k	
946	2539	Al111960	r	
947	5729	Al111990	k	
948	4049	Al112012	i,q,u,General	
949	12908	Al112043	i	
950	20041	AI112161	t	
951	12937	AI112462	General	
952	3713	Al112571	b	
953	12921	Al112636	General	
954	12965	Al112926	General	
955	7499	Al112986	General	·
956	4969	Al113008	r	
957	11817	Al136295	<u> f</u>	
959	11165	Al136372	C	
960	4045	AI136460	cc	ļ <u> </u>
961	12782	Al136493	k	
962	6850	Al136665	h	Purine metabolism, Pyrimidine metabolism
963	20920	Al136891	p,v	
964	6552	Al137062	0	
965	22722	Al137211	<u>i                                     </u>	
966	13111	Al137224	o,General	
967	15969	Al137302	e	
968	14349	Al137303	d	
969	9166	Al137406	General	
970	9525	Al137516	lt .	
971	6638	Al137579	General	
972	7414	Al137586	General	
973	11321	AI137752	Z	
974	23473	AI137932	<u> </u>	
975	13158	AI138024	<u> </u> '	
976	13467	AI138034	cc	
977	11377	AI138105	У	
978	6790	Al144801	d,h	
979	6506	AI144919	j.l.y	
980	8027	AI144958	Canada	
982	14458	AI145095	General	
983	7476	AI145202	9	
984	17545	AI145384	e	
985	17479	AI145385	r	
986	4194	AI145387	r	
987	8634	AI145722	g V Conomi	ļ
988	8339	AI145761	y,General	
989	2059	A1146005	h,General_	
990	23224	Al146033 Al168942	0	Valine, leucine and isoleucine degradation
991	5232		bb	vaime, leucine and isoleucine degradation
992	18472	AI168975	u	
992	18473	AI168975	lu Ir	
993 994	13235	Al169020	o,y,General	ļ
	11618	Al169115		
995 996	17386	AI169144	0	
997	10984 8205	Al169156 Al169176	o,u e	
998	12979	AI169176	<del></del>	<del></del>
999	2607	Al169177 Al169211	С	

VARUESE V	PATHWAYS	Will work to the		ANTY, DOCKO NO. 4XEXH-5USEN DOC. NO. 1793397
D No. : :: Socianos	ldentifier	GenBenk Acel Ref. Seq. ID No. :	Model Gode	
1000	22661	AI169265	s,z	Oxidative phosphorylation, Type III protein secretion system
1001	13239	Al169278	g.j,l,y,z	
1002	24162	Al169279	m	
1003	16879	Al169284	0	
1004	24213	Al169289	ρ	
1005	13240	AI169311	cc	
1006	5931	Al169324_	b	
1007	20891	Al169337	d	
1008	11979	Al169365	CC	<u> </u>
1009	10947	Al169372	8	
1010	20697	AI169494	0,0	
1011	8234	AI169517	Z	
1012	18343	AI169648	0	
1013 1014	10839	AI169655	l,m	<del> </del>
1014	24146 22575	Al169668	J.1	
1015	804	AI169728 AI169756	cc	
1017	8213	Al169883	p	
1018	3916	AI169947	i.bb	
1019	3733	Al170053	u,General	
1020	14179	Al170224	cc	
1021	11406	Al170263	Г	<del></del>
1022	3547	AI170209	General	
1023	11524	AI170340	j,y,z	
1024	2729	Al170363	e.i	
1025	18811	AI170525	ì	<u> </u>
1026	22524	AI170542	h	
1027	24048	AI170570	a,g	
1028	5968	AI170692	y,aa	
1029	9757	AI170693	b	
1030	18905	AI170770	e,s	
1031	16170	AI170894	i	
032	7089	AI171185	С	
1033	17591	AI171354	b	
1034	13285	AI171361	h	
1035	4428	Al171362	а	Oxidative phosphorylation, Ubiquinone biosynthesis
1036	18126	Al171369	w	
1037	23253	AI171448	0	
038	4584	Al171492	m,General	
1039	11158	Al171542	r,s	
040	15345	AI171587		
1041	21183	Al171676	k	
1042	8215	Al171692	<u>i</u>	
043	11437	Al171794	<u> </u>	
1044	2625	AI171800	СС	
045	23579	AI171802	<u>v</u>	
046	11708	AI171807	i,t	Ovidative sheet and size Time III
047	17204	AI171844	s,y,z	Oxidative phosphorylation, Type III protein secretion system
048	4420	AI171916	m	
049	3266	AI171948	I,m	ļ
050	19012	AI172056	t a a bb	
051 052	11205	Al172057	a,q,bb	
053	6057 19128	Al172102	ь	
054	15673	AI172103 AI172107	m z	<del>                                     </del>
055	6630	AI172107 AI172184	n	
056	11968	AI172104 AI172208	bb	
	16974	ΙΔ1172263	li m	
057 058	6974 23313	AI172263 AI172271	l,m d	

TABLE 28 F	ATHWAYS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,	Aliy. Docket No. 44924-503900 Doc. No. 1733397.
Sequence ID No.	ldenlijer	Confords Acci Rei. Seg. ID No.	: Mලේවා ලිලේව	Pathways
1060	15382	AI172302	I,p,General	
1061	18689	AI172329	l'	
1062	17887	AI172414	0	
1063	3042	AI172447	General	
1064	17291	AI172491	bb	Citrate cycle (TCA cycle), Glutathione metabolism, Reductive carboxylate cycle (CO2 fixation)
1065	26222	AI172506	p	(OOZ IIAZBON)
1066	13095	AI172595	r	
1067	8795	AI172618	General	
1068	6454	Al175342	j,l,m,y	
1070	4445	AI175466	х	
1071	3418	Al175475	m	
1072	18507	Al175551	bb	
1073	10217	AI175628	w	
1074	7262	AI175833	j,m,x	
1075	19004 22352	AI175875 AI175959	I.General	
1076 1077	7022	AI176041	h,n	
1078	21467	A1176061		<del></del>
1079	18581	AI176160	General	
1080	14159	AI176169	9	
1081	21742	AI176172	w	
1082	10182	AI176185	V	
1083	22765	Al176265	General	
1084	6905	Al176275	a	
1085	12999	Al176276	cc	
1086	16438	Al176294	е	
1087	21130	AI176298	У	
1088	3014	AI176362	e	
1089	15015	A1176363	lr	
1090	19006	A1176393 A1176396	X O	
1091 1092	12174	A1176435	li,m	
1092	15191	AI176456	b,o,t,v,cc	
1094	24236	Al176473	d,General	
1095	16518	AI176546	v	
1096	2161	AI176592	General	
1097	12436	AI176610	General	
1098	2536	AI176616	I,v,General	
1099	18525	AI176792	u	
1100	23449	AI176828	9	
1101	23299	AI176839	General	
1102	3580	A1176848	e d Conorol	
1103	16036	AI176849 AI176855	d,General	
1104 1105	15588	AI176855	General	<del> </del>
1106	16917	AI176951	1	<del> </del>
1107	16124	AI176963	cc	
1108	15146	Al176969	b,General	
1109	5786	AI177058	f	
1110	2852	Al177059	С	
1112	3156	AI177092	9	
1113	14384	Al177096	а	Purine metabolism
1114	13310	AI177119	General	
1115	24049	AI177341	g,p,s,u	
1116	15964	A1177360	o,General	
1117	14989	A1177366	laa	
1118 1119	7975 3006	Al177374 Al177395	k	
1120	17570	AI177683	r	
1121	9521	AI17706	ь	<u> </u>
1122	14425	AI177755	g,General	

VABUE2: P	ATHWAYS	The state of		. Aijy Qoqtai No. 44224-59399 Doc. No. 1793397
Sequence ID No.	ldenlijer	ConBank Acel Ref. Seq. ID No. · ^	; Model Code	Pathways ***
1123	10611	Al177790	j,m	
1124	5356	AI177813	cc	
1125	11791	AI177843	General	
1126 1127	14484 5780	Al177867 Al177869	General General	
1128	19184	AI178025	General	
1129	6059	Al178245	c,General	
1130	23248	Al178267	у	
1131	4073	Al178272	0	
1132	7838	Al178291	e	
1133 1134	18996	Al178326	b b	
1134	22488 18800	Al178392 Al178504	n,p,aa	
1136	22197	AI178527	g,General	
1137	3401	Al178684	bb	
1138	17713	AI178700	m	
1139	14874	Al178735	е	
1140	23567	AI178746	v,General	
1141	18907	AI178971	C	
1142	20991	AI178979	0.1	
1143 1144	5887 8477	AI179099 AI179167	q,t b,e,General	
1145	3348	Al179288	u,v	
1146	13608	Al179314	e	
1147	8849	AI179315	g,p	
1148	13611	AI179378	v,General	
1149	15438	AI179399	m,x	
1150	13614	AI179407	e,t,General	
1151 1152	15042 2768	AI179422	b,General i,General	<u> </u>
1152	24041	AI179481 AI179580	b.i	
1154	19822	Al179599	o,General	
1155	23270	Al179601	q,General	
1156	5901	Al179605	е .	
1157	16081	Al179610	g,i,p	Porphyrin and chlorophyll metabolism
1158	14564	AI179717	k	
1159	7918	A1179750	General	
1160 1161	6647 9097	Al179795 Al179875	g o,General	
1162	23989	AI179953	a	<del></del>
1163	12899	Al179967	b	
1164	1687	AI179971	С	
1165	22569	Al179979	General	
1166	23514	Al179986	o,General	Glycine, serine and threonine metabolism
1167	15892	AI179988	c,General	
1168	12402	A1180004	g General	
1169 1170	5443 5481	AI180165 AI180170	General	
1171	24028	Al180239		
1172	17089	Al180281	g	
1173	3701	Al180306	aa	
1174	3352	Al180334	m	
1175	24368	Al180392	l,m	
1176	14337	AI180414	C	
1177	19080	AI227647 AI227667	j,y,z	
1178 1179	22838 6765	A1227661	i,General	
1180	24054	Al227867	General	<del>                                     </del>
	7324	Al227885	i i	
וטוו				
1181 1182	23898	Al227987	[d	<u> </u>
	23898 1651 14237	Al227987 Al228068 Al228128	n,w e	

VARUE 28, F	ZYAWIHWAYS	The state of the s		Aliy. Doeket No. 44921-5339000 Doe. No. 1796597.
Sequence D No. 👌	lieniiier	Genbenk Ace/ Ref. Seq. ID No.::	Model Code	Pathways
1186	16913	AI228236	0	
1187	22915	Al228299	r	
1188	8917	AI228301	General	
1189	15879	AI228313	r,General	
1190	13727	AI228326	o,General General	<del> </del>
1191 1192	6102 13730	Al228335 Al228356	a	
1193	13745	Al228494	b,cc	<del> </del>
1194	4217	Al228587	s	
1195	16053	Al228596	cc	
1196	3557	AI228672	е	
1197	11605	Al228682	е	
1198	13203	Al228728	r	
1199	13771	AI228848	9	
1200	5918	AI229036	r	
1201	8235	Al229154	k	
1202 1203	16203	Al229196 Al229304	r a	<del> </del>
1203	13826	AI229304 AI229320	g 9	
1204	4640	Al229320 Al229404	x.aa	<del> </del>
1206	23563	Al229421	1	
1207	15426	Al229497	s	
1208	15193	Al229508	bb	
1209	19243	AI229638	x	
1210	23078	AI229647	р	
				Oxidative phosphorylation, Ubiquinone
1211	3099	Al229680	0	biosynthesis
1212	19508	A1229698	bb	
1213 1214	13977	Al229707 Al229708	x v	
1215	2688	A1229700	6	
1216	13874	Al229832	g	
1217	12587	Al229979	General	
1218	20591	AI229993	l,m	
1219	24042	Al230002	a,b,d,General	
1220	13880	AI230042	U	
				Oxidative phosphorylation, Ubiquinone
1221	17672	AI230074	d	biosynthesis
1222	3652	AI230113	General	
1223 1224	18650	AI230121	aa c	
1225	13025 4280	Al230173 Al230247	Z	
1226	18528	AI230247	General	
1227	7084	AI230362	D	
1228	20895	Al230549	b,n	
1229	12961	Al230554	General	
1230	15636	Al230616	r	
1231	4121	Al230647	j,m	
1232	14388	AI230702	General	
233	18529	AI230716	x,General	
1234	13618	AI230724	General	
1235	8304	AI230746	cc	<del> </del>
1236 1237	4731	AI230773 AI230798	e c,k,x	<del></del>
1237	14430 16627	AI230798 AI230822	bb	Glycoprotein biosynthesis
1239	3125	AI231028	General	City-ophotoin biosynthesis
1240	633	AI231028	k	
1241	20846	Al231140	P	
1242	6743	Al231219	ð	
1244	26292	AI231391	k	
1245	12343	Al231433	w	
1246	7337	AI231465	aa	
1247	16321	Al231506	General	

VARUE 28 F	PATHWAYS			. Aligy, Docates N.O. 449241-533920 
Sequence ID No.' 😢 .,	lderilifier	GenDank Accl. Ref. Seq. ID No.	Model Gode	Pattiways 1999
1248	8004	AI231532	j.l	
1249	15171	AI231792	9	
1250	6193	AI231797	<del> </del>	
1252 1253	14227	A1231999	U	
1255	24501	AI232006	w,y,bb g,q,z,cc,	
1254	3434	AI232014	General	
1255	19094	AI232021	n,General	
1256	14020	Al232076	u	
1257	6726	Al232157	d	
1258	11549	AI232174	l,m	
1259	23125	AI232266	j,s	
1260	2085	AI232270	bb	ļ
1261	2913	AI232272	0	
1262	14304	AI232281	g	
1263 1264	15955	AI232294 AI232303	u,bb,General v	
1265	4716	AI232303 AI232313	y	
1266	15246	AI232313	t,u	
1267	24321	AI232340	o	
1268	16172	AI232341	d	
1269	11411	AI232346	h	
1270	19287	AI232379	f	pdgf
1271	5601	AI232461	n,General	
1272	14051	AI232489	l,m	
1273	5572	AI232490	i,t	
1274	11157	AI232494	cc	
1275	8709	AI232534	0	
1276	20350	AI232552	j.v.y	
1277	14069	AI232631	е	
1278	4440	AI232643	w	ļ. <del></del>
1279 1280	17695 15796	AI232784 AI232874	e v	
1281	12467	Al232924	General	
1282	12873	AI232984	li	
1283	5355	AI233031	r	
1284	18794	AI233121	c	
1285	3823	AI233147	b,g,General	
1286	11967	AI233155	c,k,General	
1287	11561	AI233182	d	
1288	3471	AI233183	9	
1289	21948	AI233191	i	
1290	13598	AI233194	g.p.y	
1291	15552	A1233195	ly .	
1292 1293	17907	A1233224 A1233269	bb cc	
1293	12894	A1233365	d	
1295	7161	AI233407	General	
1296	15906	Al233425	q	<del></del>
1297	14120	AI233433	d	
1298	14095	AI233468	a,d	
299	3075	AI233494	u,aa	
1300	6046	AI233530	General	
1301	18900	AI233570	General	Aminoacyl-tRNA biosynthesis, Arginine an
302	7888	AI233583	General	proline metabolism
1303	16709	A1233602	General	Purine metabolism
1304	5163	AI233712	у	
305	7243	AI233717	General	
1306	3816	AI233729	9	
1307	13023	AI233740	d,h,General	
1308	14871 7469	AI233743 AI233767	cc	<u> </u>

yaeuez: F	ATHWAYS	1	- (j. <del>1</del> 1)	Aliy, poetol No. 44921-5939W Doe, No. 1798397,
Sequence ID No.	i Lieitthier	ConBank Aced (%) Ref. Seq. 1D No. *	Model Gode	Pathwaya
1310	7804	Al233771	b	
1311	13563	AI233773	е	
1312	2154	AI233818	k,cc	*
1313	16616	AI234079	h	
1314	13393	AI234100	a,d,General	
1315	7071	AI234162	r	
1316	14677	Al234620 Al234629	General	
1317 1318	4443 22453	AI234629	m b	
1319	23964	Al234748	t.General	
1320	19581	AI234753	f	
1321	22152	Al234822	o.General	
1322	18942	AI234865	d	
			<u> </u>	Oxidative phosphorylation, Type III protein
1323	22662	Al234939	aa	secretion system
1324	3875	Al235047	o,General	
1325	19479	Al235135	0	
326	14906	Al235192	9	
1327	14718	Al235210	е	
328	15004	Al235224	b,General	
1329	6632	Al235277	V	
1330	14722	AI235284	x,z	ļ
1331	1462	AI235585	u,General	<u> </u>
1332	21061	AI235631	1,m	lad bata
1333	14665	AI235646	m Garage	tgf-beta
1334	19940	A1235689	General	<del> </del>
1335	5698 23745	AI235692 AI235732	u k	
1337	11164	Al235732 Al235739	General	
1338	5212	AI235745	d	
1339	14768	Al235912	h	
1340	14776	Al235950	m	
1341	3091	AI236027	n.General	
1342	14861	Al236045	r	
1343	14862	AI236048	е	
1344	16943	Al236097	р	
1345	8336	AI236101	1	
1346	23230	Al236146	v	
1347	22855	AI236150	e	
1348	14594	Al236152	i	
1349	18406	Al236168	r	
1350	15051	Al236332	General	
351	19298	AI236338	bb	
1352	10667	AI236366	b	
1353	10774	AI236397	f	
1354	9407	AI236402 AI236460	General	
1355 1356	26335 17950	Al236590	t,General	
1357	18259	AI236590	h,v	
1358	11445	Al236613	j.y	
1359	17248	AI236635	0,aa	<del>                                     </del>
1360	16859	Al236753	t,General	
361	5208	Al236754	9	
1362	24388	Al236772	e,General	
1363	15850	Al236795	n,v,w	
1364	14800	AI236856	w	
1366	11404	AI237002	m	
1367	18151	Al237212	o,General	
1368	21653	Al237535	t,General	
1369	11208	AI237586	z	
1370	21893	AI237713	i,k,aa	
1371	14842	AI237724	Constal	
1372	3467	AI237835	General	

TABUEZ: F	AVKWAYS	A 20 A 20		2002:03-17:2222 No. 40:20:20:20:20:20:20:20:20:20:20:20:20:20
D No.	lehijae	GenBenk Acci.	Model Gode :	Pelliveys 12 14 14 1
1373	25840	AI638972	u	
1374	17108	Al639017	ń	
1375	16676	AI639082	c,k,x	
1376	12400	AI639107	k	
1377	19952	Al639108	q,v	
1379	25907	AI639167	o,w	
1381	18533	AI639231	n	
1382 1384	18353	A1639233	t,aa General	
1385	15330 20026	Al639285 Al639354	g	
1386	25971	AI639365	r	
1388	19152	AI639387	u.General	
1390	18338	AI639422	У	
1392	20082	AI639488	i,m	
1394	20056	AI639504	a,bb,General	
1395	4713	Al639518	q	
1396	14332	AJ001044	bb	
1397	7602	AJ001929	k	
1398	9867	AJ005424	u	
1400	16351	AJ011811	General_	
1401	20116	AJ011969	I,General	
1402	17635	AJ223355	v,w	Fatty acid metabolism
1403 1404	18686 5049	D00729 D10655	n,w	ratty acid metabolism
1404	25257	D13623	ii,w	
1405	15281	D13623	h	
1406	11434	D14014	cc	
1407	1613	D14076	x	
1408	1728	D16479	q .	Bile acid biosynthesis,Fatty acid biosynthesis (path 2),Fatty acid metabolism,Phenylalanine metabolism,Valine, leucine and isoleucine degradation
1409	3015	D16554	C,S,V,Z	degradation
1410	472	D26111	d,s,bb	
1412	16233	D29960	i.i	
1413	9029	D30804	n	
1414	1485	D38222	y,z	
1415	9135	D45247	s ·	Proteasome
1416	16354	D50564	u	Cysteine metabolism
1417	1884	D50695	I,m,bb	
1418	21147	D63772	General	Object in the last of the last
1419	826	D82928	lf u	Glycerolipid metabolism
1420 1421	25306 18867	D84485 D88250	t	
1423	22543	H31117	r,v,General	
1424	12360	H31456	W General	
1425	20514	H31489	h,j	*
1426	11358	H31610	h	
1427	4360	H31813	bb,General	
1428	9343	H32169		
1429	4386	H33093	h,w	
1430	4415	H33636	h	
1431	15374	H34186		·
1432	17159	J00797	u,General	
1433	16260	J01878	IT No.	Valina louging and inclouding description
1434 1435	17284	J02827 J03752	bb	Valine, leucine and isoleucine degradation
1435	15017 44	J03/52 J03819	p,s	
1437	21014	J03914	e,r,General	Glutathione metabolism
. 701		1		Androgen and estrogen metabolism,Bile
1438	20429	J05035	f	acid biosynthesis

VABUEZ: P	ATHWAYS	19. 有的影响!		Aliy Looloj No. 44221-5039We Dos. No. 1798397.
Sequence ID No. :	ldentiller	CenEail: Accl.; Rel Seq. ID No.	Model Code	Pathways
1				Glutamate metabolism, Glutathione
1439	1247	J05181	j,l,m,s,y,z	metabolism
1440 1441	10464 20149	J05510 K03243	n,u,General q	
1442	17758	K03249	9	
1443	381	L00124	w	
1444	2048	L00382	k,x	
1445	10500	L04619	s	
1447	108	L14002	р	
1448	25366	L14003	t	
1449 1450	109 20414	L14004 L14323	c,p General	
1450	25369	L14937	у	
1452	16119	L16532	k	<del></del>
1453	25377	L25387	h	
1453	12058	L25387	h	
1455	21146	L35558	General	
1456	106	L37203	w	
1458	13682	L38482	f,j,k,m,z	
				Glutamate metabolism, Glutathione
1459	6405	L38615	P	metabolism
1461	15189	M11794	n,v	
1462	17086	M13011	<u> </u>	
1464 1465	21053 25405	M15481 M18330	o j,l	
1466	25415	M19648	a	
1468	14967	M22366	w	
1469	20481	M22631	bb	
1471	15048	M24542	q	Oxidative phosphorylation
1472	20921	M29853	m	
1473	1224	M31931	u	
1474	15579	M33648	q	
1474	15580	M33648	q	
1475	17211	M34331	g,n,q,v	
1476	20699	M35601	b.x.bb	
1476 1477	20700 9223	M35601 M36151	b,t,bb o	
1479	1585	M57728	j.m.y	
1480	24844	M58040	c	
1481	25057	M58495	h	
1482	457	M60666	d,General	
1483	1223	M75281	f	
1484	5733	M81855	i,k,aa	
1485	4198	M83143	m	
1485	4199	M83143	m	
1486	24651	M83678	k,x,z	I Part of the Part
				Histidine metabolism,Phenylalanine metabolism,Tryptophan
1487	1430	1404640	General	metabolism, Tryptopnan metabolism, Tyrosine metabolism
1407	1430	M84648	General	Arginine and proline metabolism, Urea cycle
1488	25467	M93297	c	and metabolism of amino groups
1489	729	M95762	a,y	and measurement and groups
				Bile acid biosynthesis, Fatty acid
				biosynthesis (path 2),Fatty acid
				metabolism,Phenylalanine
				metabolism, Valine, leucine and isoleucine
1490	23698	NM_012489	9	degradation
				Bile acid biosynthesis, Fatty acid
				biosynthesis (path 2),Fatty acid
				metabolism, Phenylalanine metabolism, Valine, leucine and isoleucine
			l .	Interaconstit, valide, reddite and isoleddite

TABUE 23: 12	ATHWAYS	The Part of the		Aliy, Docket No. 44921-2039.We Dock No. 1793497.1
Seguence ID No. : : :	lienilier	ConBark Acc Rol Soc ID No.	Model <b>ල</b> ංමා	Palityeys
				Carbon fixation, Fructose and mannose
				metabolism, Glycolysis /
Ω.	L			Gluconeogenesis, Inositol
1491	7062	NM_012495	9	metabolism,Pentose phosphate cycle Fructose and mannose
				metabolism, Galactose
	<u> </u>			metabolism, Glycerolipid
				metabolism,Pentose and glucuronate
1492	15511	NM 012498	u	interconversions, Pyruvate metabolism
1494	7427	NM_012515	General	
1495	24433	NM_012527	i	
			1.	Arginine and proline metabolism, Urea cycle
1496	4467	NM_012529	d	and metabolism of amino groups
1497	16520	NM_012532	General	Porphyrin and chlorophyll metabolism
1498	225	NM_012544	x,z	Histidine metabolism,Phenylalanine
				metabolism,Tryptophan .
1499	1431	NM 012545	General	metabolism, Tyrosine metabolism
1500	23868	NM 012551	I,m,v,General	
1500	23872	NM 012551	I,v,cc,General	
1500	23869	NM_012551	v,General	
				Glycolysis /
				Gluconeogenesis,Phenylalanine, tyrosine
1501	19407	NM_012554	Z	and tryptophan biosynthesis
				Glycolysis /
	10100	040554		Gluconeogenesis, Phenylalanine, tyrosine
1501	19408 21836	NM_012554	n,s,y,z k	and tryptophan biosynthesis
1502	21836	NM_012555		Carbon fixation,Fructose and mannose
				metabolism, Glycolysis /
1503	16895	NM 012558	g,s	Gluconeogenesis, Pentose phosphate cycle
1504	25317	NM_012559	bb	
1504	6477	NM_012559	b,bb	
1504	6478	NM_012559	bb	
1505	11731	NM_012561	k	
1507	4254	NM_012564	a	
1508	16026 16024	NM_012578	ir Ir	
1508 1508	16025	NM_012578 NM_012578	-	
1509	16080	NM 012580	g,m	Porphyrin and chlorophyll metabolism
1510	15098	NM 012588	bb	
1511	4450	NM 012592	bb	Valine, leucine and isoleucine degradation
1511	4451	NM_012592	i,bb	Valine, leucine and isoleucine degradation
1511	4452	NM_012592	bb	Valine, leucine and isoleucine degradation
1512	17198	NM_012593	a,x	
1512	17197	NM_012593	x	lo be full a Survey and the light
1513	18749	NM_012600	a,h	Carbon fixation,Pyruvate metabolism
1514	2628	NM_012603	General	
1514 1515	2629 16849	NM_012603 NM_012608	x,General n,o,q	
1517	15540	NM 012620	General	
1518	24568	NM 012630	General	
1518	24566	NM_012630	General	
1519	18553	NM_012631	k	
1520	1844	NM_012637	General	
	24668	NM_012642	f	
1521		INIM 049CAE	a	
1522	18632	NM_012645	<del></del>	
1522 1523	25435	NM_012647	9	
1522 1523 1524	25435 9423	NM_012647 NM_012649	b,cc	
1522 1523 1524 1525	25435 9423 24496	NM_012647 NM_012649 NM_012654	b,cc n	
1522 1523 1524	25435 9423	NM_012647 NM_012649	b,cc	Fatty acid metabolism, Tryptophan

vabuez: P	ZYAWATTAY	· 1000 1000 1000 1000 1000 1000 1000 10		
Segrence D No.	identifier	CenBank Acel . 🔏 Ref. Seq. ID No. 🔏	Model Gode	Pathways
1528	1850	NM_012696	ĮĮ.	
1528	1854	NM_012696	t	
1529	1603	NM_012697	General	
				Aminosugars metabolism,Fructose and mannose metabolism,Galactose metabolism,Glycolysis / Gluconeogenesis,Starch and sucrose
1530	1372	NM_012734	u	metabolism Alanine and aspartate metabolism, Citrate
1531	1478	NM_012744	bb,General	cycle (TCA cycle),Pyruvate metabolism
1532	343	NM_012747	h,t	
1533	8829	NM_012749	General	
1534	20828	NM_012752	General	
1534	20829	NM_012752	i,General	
1534	20830	NM_012752	i,General	
1535	15174	NM_012756	ь	
1536	21685	NM_012760	j,m,n	
1537	18068	NM_012762	Con-	During matchaliam
1538	1246	NM_012770	a,General	Purine metabolism
1539	1348	NM_012776	r	
1540	18135	NM_012791		Arginine and proline metabolism, Glycine, serine and threonine metabolism, Urea cycl
1541	16947	NM 012793	p,bb	and metabolism of amino groups
1542	960	NM 012796	u	Glutathione metabolism
1543	260	NM 012798	f.u	
1544	556	NM 012803	d	
1545	21729	NM 012804	q	
1546	15032	NM 012816	General	
1547	24895	NM 012817	General	
1548	18109	NM 012823	u.General	
1549	373	NM 012833	h,l,q,General	
1550	2855	NM 012838	е	
1551	11136	NM 012839	S	
1552	20885	NM_012842	а	egf
1552	20884	NM_012842	a,bb	egf
1553	18770	NM 012857	е	
1554	20674	NM 012861	i	
1555	13151	NM 012862	a,r,General	
1556	24617	NM_012870	General	
1557	20945	NM 012875	a,v	
1558	15872	NM_012879	o,r	
1559	495	NM_012880	z	
1559	494	NM_012880	C	
1560	23651	NM_012881	d.u.General	
1562	19477	NM_012891	q	
1563	18564	NM_012899	v,General	Porphyrin and chlorophyll metabolism
1564	7197	NM_012904	f,r,cc,General	
1564	7196	NM_012904	v,cc,General	
1565	20202	NM_012909	b,r	
1566	16581	NM_012911	C,j	
1566	16582	NM_012911	С .	
1567	24431	NM_012912	General	
1568	18118	NM_012913	Р	Oxidative phosphorylation
1569	6108	NM_012915	n	
1570	20757	NM_012923	c,i,aa	
1570	20755	NM_012923	1	
1571	2830	NM_012925	f	
1571	2831	NM_012925	f	Fatty acid metabolism, Glycerolipid
1572	1977 18694	NM_012930 NM_012931	j,l,m,z	metabolism
1573				

valuez: P	ATHWAYS			0003903-1823
Sequence : ID No. ()	relithrebl	ConBank Acel Rol. Soc. ID No. :	Model Gode	Pathways
1575	9109	NM_012939	j,y,z	
1575	19398	NM_012939	aa	
1576	223	NM_012945	b,cc	
1577 1579	15058	NM_012950 NM_012963	cc	<del> </del>
1580	19111	NM 012964	9 X	
1581	2554	NM 012967	î t	
1581	2555	NM_012967	t,cc,General	
1582	24528	NM 012973	c	
1583	956	NM_012976	С	
1584	16417	NM_012991	9	
1585	17393	NM_012992	d	
1586	23544	NM_013013	S	
1587	1588	NM_013026	k	<u> </u>
1588 1589	17894 18300	NM_013027 NM_013030	m s,v,General	
1589	18076	NM 013030	g,s,z	
1589	18078	NM_013030	s	
1589	18077	NM 013030	e,s,z	
1591	730	NM_013040	w	
1592	17401	NM_013043	i,o,General	
1593	16684	NM_013052	General	
1594	14421	NM_013053	u	
1595	15254	NM_013058	k	
1596	14997	NM_013059	s,z	Folate biosynthesis, Glycerolipid metabolism
1596	14996	NM_013059	General	Folate biosynthesis, Glycerolipid metabolism
1597 1597	25676 16924	NM_013069 NM_013069	aa o	
1598	24748	NM 013070	h,q	
1599	1529	NM 013082	d.General	
1600	1521	NM_013091	j,l,z,General	
1601	1685	NM_013096	c,aa	
1601	26150	NM_013096	c,i.	
1601	1688	NM_013096	P	
1601	1689	NM_013096	c,p	
1601	1684	NM_013096	c,s,aa	
1602 1602	20886 20887	NM_013097 NM_013097	u,x,bb u,x,bb	
1002	20007	14W_013097	10,x,00	Galactose metabolism,Glycolysis / Gluconeogenesis,Starch and sucrose
1603	1321	NM_013098	c	metabolism
1604	15296	NM_013102	l,m	
1606	23709	NM_013113	o,s,z,aa	
1606	23711	NM_013113	<u>P</u>	
1606	23710	NM_013113	s	<del> </del>
1607 1609	1976 870	NM_013118 NM_013130	h	
1610	16650	NM 013132	u,General	
1611	650	NM 013134	h	Sterol biosynthesis
1611	651	NM_013134	h,j,l	Sterol biosynthesis
1612	1712	NM_013138	General	
1613	16982	NM_013144	o,v,General	
1614	21683	NM_013154	t,cc,General	
1614	21682	NM_013154	cc	
1615	3431	NM_013156	b,g,n	<del> </del>
1615	25567	NM_013156	v,General	<del></del>
1615 1616	3430 1309	NM_013156 NM_013159	General  w	
1616	1310	NM 013159	lw	
1617	21723	NM_013174	w	
1618	1314	NM_013181	m	<del> </del>
1619	17357	NM_013183	p,bb,General	<del> </del>

TABLES: 1	ATHWAYS		9	Aliy, boatalko, 44924-503900 Doc Ko, 1793397,
George		Confern the Conference		<u> </u>
D Ko	leeniijer	GenDenk Acci Rei Seg. ID No.	Model Code	Pathways · · · · · · · · · · · · · · · · · · ·
				Fructose and mannose
				metabolism, Galactose
4000	4200	NIM 042400	l.,	metabolism, Glycolysis / Gluconeogenesis, Pentose phosphate cycle
1620 1621	1300 16448	NM_013190 NM_013197	c c	Glycine, serine and threonine metabolism
1021	10446	14101_013131		Fatty acid metabolism, Glycerolipid
1622	20856	NM 013200	ь	metabolism
1623	397	NM 013214	f	
1624	20864	NM_013215	g,n,y	
1625	20728	NM_013217	٧	
1626	1396	NM_013222	j	
1627	815	NM_013224	w	
1628	18305	NM_013226	v	Eath, said matabalism Proposate
				Fatty acid metabolism, Propanoate metabolism, Valine, leucine and isoleucine
1629	21078	NM 016986	d	degradation,beta-Alanine metabolism
1630	24649	NM_016988	v	Riboflavin metabolism
1631	15239	NM 016989	q.w	
1632	45	NM 016996	General	
				Fatty acid metabolism, Tryptophan
1633	20714	NM_016999	t	metabolism
				Fatty acid metabolism, Tryptophan
1633	20713	NM_016999	t	metabolism
			<b>i</b> .	Fatty acid metabolism, Tryptophan
1633	20711	NM_016999	q,t	metabolism Fatty acid metabolism, Tryptophan
4000	00745	NIA 046000		metabolism
1633 1634	1698	NM_016999 NM_017000	q,t e,n,p,General	Sterol biosynthesis
1034	1030	14W_017000	e,ii,p,General	Glutathione metabolism,Pentose phosphate
1635	1399	NM 017006	h,n,General	cycle
1637	18989	NM 017013	n	Glutathione metabolism
1638	21013	NM 017014	e,f	Glutathione metabolism
1638	21015	NM_017014	e,General	Glutathione metabolism
1639	11836	NM_017023	b	
1639	5475	NM_017023	b	
1639	25546	NM_017023	b,bb	
				Cysteine metabolism,Glycolysis /
4040	47007	NIA 047005	i.General	Gluconeogenesis,Propanoate metabolism,Pyruvate metabolism
1640 1641	17807 24597	NM_017025 NM_017040	u.	metabolism, Fyruvate metabolism
1642	24696	NM 017048	f,j,z	
1643	24695	NM 017049	u	-
1644	20876	NM 017050	j,n,z	
1645	910	NM_017059	f,l,m	
1645	912	NM_017059	i	
1646	1946	NM_017061	h	
1646	1942	NM_017061	t,General	
1646	1943	NM_017061	t	
1647	6062	NM_017066	d	
1648	6654	NM_017068	s	Glutamate metabolism, Nitrogen metabolism
1649 1650	923	NM_017073 NM_017076	General	Sidemate metabolism, Nidogen metabolisi
1651	1523	NM 017079	S	<del> </del>
1001	1.020	011073	F	Androgen and estrogen metabolism,C21-
1652	23660	NM 017080	s	Steroid hormone metabolism
<del></del>		<u> </u>		Androgen and estrogen metabolism,C21-
1653	275	NM_017081	b,d,General	Steroid hormone metabolism
1033	16211	NM 017082	j,s,z	
1654	1.02			
1654 1655	1552	NM_017084	<u> </u>	Glycine, serine and threonine metabolism
1654 1655 1655	1552 1550	NM_017084 NM_017084	y y	Glycine, serine and threonine metabolism Glycine, serine and threonine metabolism
1654 1655	1552	NM_017084	y a,k,x m	

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-1	•	1	-

				A.W 10-10-4 No 4/100-4 - 1000 AV
VANSUE 28: 19	WAVKWAYS			Aliy. Dociel No. 44924-5039W0 Doc. No. 1798397.1
Sequence	6	Can Bank Acc		
D No. 7	(dentifier	Rel See ID No.	Model Godes	Pethways and the second
1659	4393	NM_017101	a,y	
1660	24770 20745	NM_017111 NM_017113	d e	
1661	20746	NM 017113	a	
1662	1375	NM_017122	w	
1663	12903	NM_017124	k	
1664 1664	24885 24886	NM_017138 NM_017138	d,q	
1665	15363	NM 017147	n,u	
1666	13392	NM_017148	u,General	
1667	5351	NM_017150	q	
1668	16954	NM 017151	la,n	
1669 1670	21643 1694	NM_017152 NM_017153	g a,q	
1671	17104	NM_017160	bb,General	
1671	17106	NM_017160	u	
1671	17107	NM_017160	d,e	Ol. As the second of the lines
1672 1673	17686 20702	NM_017165 NM_017166	n,q c	Glutathione metabolism
1674	3513	NM 017177	r	Glycerolipid metabolism
1675	19031	NM_017180	v,General	
1676	15437	NM_017187	x,z	
1676	15433	NM_017187	y	
1676 1677	15434 24437	NM_017187 NM_017190	x,z p	
1678	1542	NM_017193	j,l,m,z	
1679	14695	NM_017202	q,s	Oxidative phosphorylation
1679	14694	NM_017202	s,z	Oxidative phosphorylation
1680 1681	1428 1622	NM_017213 NM_017216	m g,j,s,z	
1682	13642	NM 017220	v v	
1682	19976	NM_017220	w	
1683	1510	NM_017224	General	
1684 1686	1811 17563	NM_017228 NM_017245	j,l,m,z a,c,e,q	
1687	17502	NM 017248	r	
1687	17501	NM_017248	x	
1688	19	NM_017258	v,General	
1689	15300	NM_017259	i,v,cc,General I,m,v,aa,cc,	
1689	15301	NM 017259	General	
1689	15299	NM_017259	I,y,cc,General	
1690	15224	NM_017264	d	
1691	3987	NM_017280	<u>ьь</u>	Proteasome
1692 1693	1447 15535	NM_017281 NM_017283	s,bb	Proteasome Proteasome
1694	12349	NM 017290	General	Oxidative phosphorylation
1695	15819	NM_017298	р	
1696	23825	NM_017299	v	
1696	23826	NM_017299	V	Glutamate metabolism, Glutathione
1697	14003	NM 017305	j,l,m,y,z	metabolism
1698	26109	NM_017306	q,s	
1698	18687	NM_017306	q,t	Fatty acid metabolism
1699 1700	18142 1894	NM_017314 NM_017320	g,s,aa t	
1701	20809	NM 017326	u	<del> </del>
1702	355	NM_017334	cc	
1703	16148	NM_017340	q.s	Fatty acid metabolism
1703	16150	NM_017340	a s u Gonomi	Fatty acid metabolism
1704 1704	20849	NM_017343 NM_017343	r,u,General b,General	
1705	606	NM_017350	b	
·	<del> </del>		<del></del>	<del>· · · · · · · · · · · · · · · · · · · </del>

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VARUEZ: P				ANTY, DOCKSI NO. 44921-5799X Dock No. 1799397
D Keri. Zedreves	relilineed	CenDank Acel	Model (code)	Pathways 7
1706	1581	NM_017365	General	
1707	455	NM_019131	x	
707	456	NM_019131	y,z	
1708	4532	NM_019134	b	
709	1608	NM_019166	j.y.z	
710	7489	NM_019169	c,General	Description of the description of the description
711	17066	NM_019170	p	Prostaglandin and leukotriene metabolism Nitrogen metabolism
712	23924	NM_019174	bb t	Nirogen metabolism
713  714	24019	NM_019186 NM_019195	d	
715	2079	NM 019220	j,k,z	
1716	16284	NM 019229	I.m	
717	985	NM 019233	b,cc	
718	15503	NM_019237	k,x	
718	15504	NM 019237	k,x	
719	17908	NM 019242	I,v,cc,General	İ
720	11218	NM 019247	C	
721	15259	NM_019259	d,f	
722	21443	NM_019262	aa,General	
1722	21444	NM_019262	t,General	
723	117	NM_019266	o,bb	
724	1145	NM_019280	w	
				Bile acid biosynthesis,Fatty acid metabolism,Glycerolipid metabolism,Glycolysis /
725	22220	NM_019286	С	Gluconeogenesis, Tyrosine metabolism
726	10015	NM_019289	I,m,t,x,General	
726	10016	NM_019289	bb,General	
1727	21651	NM_019296	c,f,x	
728	20751	NM_019301	s	
729	645	NM_019345	bb	
730	1301	NM_019349	C	
731	3776 4592	NM_019354 NM_019356	a,u General	
1733	1324	NM_019371	w	
1734	19577	NM 019377	e	
1735	24626	NM 019381	s	<del></del>
1736	744	NM 019622	P	
				Fatty acid metabolism, Tryptophan metabolism
737	20716	NM_019623	C	metabolism
738	20709 574	NM_019904	u.General	Glyoxylate and dicarboxylate metabolism
739	9096	NM_019905 NM_019908	i,General	Glychylate and dicarboxylate metabolism
1740	20457	NM_020073	i General	
1741 1741	20457	NM 020073	General	
741	20460	NM 020073	General	
742	18713	NM_020075	r	
742	18715	NM 020075	r	
743	20493	NM_020076	Р	Tryptophan metabolism
744	16375	NM_020976	9	
745	20816	NM_021261	k,General	
746	15335	NM_021264	а	
747	18729	NM_021578	k,z	
748	19060	NM_021587	cc	
749	17324	NM_021593	o,General	
750	19679	NM_021653_	General	
750	19678	NM_021653	a,v,General	
1751	19665	NM_021688	u,General	
752	19667	NM_021690	m	
1754	22916	NM_021740	a	
1755 1755	19710	NM_021744 NM_021744	lt It	

TABUEZ: P	ATRWAYS	hill service and it is		Weins-1883 No. 18 tead still
				Doc. No. 1798397.
D No. : ***	ldenMier	Coneant Aca Rol Son ID No. *	Model Gode :	Pelliveys X
1757	1962	NM_021750	j,k,y,z	
1757	19824	NM_021750	a,bb	Taurine and hypotaurine metabolism
1758	25198	NM_021754	h	
1758	20035	NM_021754	b,n,s,v,General	
1759	20090	NM_021757	m	
1760	17885	NM_021765	aa	
1762	20161	NM_021836	cc,General	
1764	1203	NM_021997	k,z	
1765	23151	NM_022005	b	Aminosugars metabolism,Fructose and mannose metabolism,Galactose
				metabolism,Glycolysis / Gluconeogenesis,Starch and sucrose
1767	17101	NM_022179	bb	metabolism
1767	17100	NM 022179	bb	Aminosugars metabolism, Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Starch and sucrose metabolism
1768	20257	NM 022180	w.General	measonom
1768	25699	NM 022180	i	
1768	10860	NM 022180	p	
1769	23780	NM 022183	k,x	
1770	20312	NM 022224	0	
1771	6585	NM 022266	d,p,cc	
1772	17161	NM 022298	i,v,cc,General	
1772	17162	NM 022298	u	
1772	17160	NM 022298	u	
1772	17158	NM 022298	q	
1773	11454	NM 022381	i,aa,General	
1773	11455	NM 022381	I.General	
1774	13480	NM 022390	S	Folate biosynthesis
1775	15184	NM 022391	z	
1776	22413	NM 022392	h	
1776	22414	NM 022392	n	
1777	22499	NM 022393	t	
1779	24537	NM 022399	е	
1779	24539	NM_022399	у	
1780	1141	NM_022401	o,General	
1781	1069	NM_022402	g	
1782	8211	NM_022500	j,n,s	
1782	8212	NM_022500	n,s	•
1783	6815	NM_022503	S	Oxidative phosphorylation
1784	4259	NM_022504	q,w	
1785	1611	NM_022509	j	Butanoate metabolism, Fatty acid
700	2226	NIM 022542	<b>-</b>	metabolism, Valine, leucine and isoleucine
1786	2236	NM_022512	y,z	degradation
1787	3026	NM 022514	a 2.0423	
787 1788	3027 2696	NM_022514 NM_022515	a,q,r,aa	<u>.                                    </u>
1788 1788			a,d	
1789	2697 3900	NM_022515 NM_022516	n,w,aa h	
1790	4151			
1790	4242	NM_022518 NM_022521	c c	Arginine and proline metabolism, Urea cycle and metabolism of amino groups
1792	4412	NM_022523	0	
1793	6641	NM 022533	General	
1794	8097	NM 022536	a	<del></del>
1795	8597	NM_022538	C,r,u	
1795	8598	NM_022538	U	
1796	9296	NM_022541	0	
1797	21063	NM 022585	h	
		1	<u> </u>	

TABUEZ: P	ATHWAYŞ	<b>国籍的</b>		ANTANDOS CONO. 44974-5039000 Doc. No. 1798397.
Sequence':	ldentilièr	Cendent Acci.	jir: Mödəl Godə ,	Pathways &
1799	20781	NM_022591	z	
1800	20803	NM_022592	n	Carbon fixation, Pentose phosphate cycle
1801	20925	NM 022594	9	
1802	20944	NM_022597	aa	
1803 1804	21024 2250	NM_022599 NM_022643	o,General General	
1805	17567	NM 022672	a,y	
1806	17661	NM 022674	bb	
1807	24563	NM_022676	b	
1807	24564	NM_022676	b,x	
1808	20506	NM_022686	[	
1809	20508	NM_022688	g	
1810	17586	NM_022694	k	
1811	17730	NM_022697	a	
1811 1812	17729 154	NM_022697 NM_022849	q t	
1813	127	NM 022855	h	
1814	152	NM 022858	i	
1816	18101	NM_022948	z	
1816	18103	NM_022948	U	
1817	21491	NM_022951	w	
1818	15742	NM_022958	у	
1819	9286	NM_023027	t,w	
1820	23215	NM_023102	z	
1821	21238	NM_024125	cc,General	il6,interact6-1
1821	21239	NM_024125	cc,General	il6,interact6-1
1822 1822	353 354	NM_024127 NM_024127	i.n.General	
1822	352	NM 024127	h,General	
1823	17227	NM 024131	x	
1824	1598	NM 024134	i	
1825	1162	NM_024153	d	Porphyrin and chlorophyll metabolism Oxidative phosphorylation, Type III protein
1826	7863	NM 024156	С	secretion system
1827	22079	NM_024157	x	
1828	16476	NM_024162	General	
1829	17765	NM_024351	b,s,v	
1830	8879	NM_024360	h	
1831	20772	NM_024363	<u>x</u> .	Butanoate metabolism, Synthesis and degradation of ketone bodies, Valine,
1832	2812	NM 024386	c	leucine and isoleucine degradation
1833	335	NM_024387	j,y	Porphyrin and chlorophyll metabolism
1834	21	NM_024388	cc	
1834	22	NM_024388	cc	
1836	9929	NM_024392	f	Androgen and estrogen metabolism
1837	3582	NM_024396	aa	<u> </u>
1838 1839	19993 10789	NM_024398 NM_024399	e,p,s,aa o	
1840	22626	NM 024400	cc,General	
1841	13633	NM 024403	g,General	<del></del>
1841	13634	NM 024403	g,General	<del>                                     </del>
1842	23387	NM_024404	b,General	
1843	21038	NM_024484	h	Glycine, serine and threonine metabolism
1844	1853	NM_030826	s	Glutathione metabolism
1845	15111	NM_030827	e,General	
1845	15112	NM_030827	y.z	
1845	15110	NM_030827	General	
1846	808	NM_030837	k,m	
1847 1848	4057 1221	NM_030844 NM_030845	k t	
1849	21509	NM 030847	x	
1850	1928	NM_030872	<del>v</del>	<del>                                     </del>

TABUĘZ: F	AYAWAYS			AXIY: DOCKETNO. 44921-4009XX Doc. No. 1796397.
Sequence DNo. ;	lelaniiler	Coneark Acal Ref. Seq. ID No.':*	Model (600)	Pelliways 4
1851	17342	NM 030873	u	
1852	24648	NM_030985	u	
1852	25453	NM_030985	General	
1853	21802	NM_030987	h	
				Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Pentose and glucuronate
1854	23109	NM 031000	f,s,z	interconversions
1855	134	NM 031003	a,u	
1856	25461	NM_031009	0	
1857	1845	NM_031010	t	Prostaglandin and leukotriene metabolism
1857	25517	NM_031010	c,t	Prostaglandin and leukotriene metabolism
1858	16562	NM_031020	f	
1859	1480	NM_031021	f	
1860	1719	NM_031024	n	
1861	1350	NM_031030	h	
1862	16775	NM 031031	General	Arginine and proline metabolism, Glycine, serine and threonine metabolism, Urea cycl and metabolism of amino groups
1863	691	NM 031034	w	
1864	15886	NM_031035	z	
1866	3608	NM 031044	k,General	Histidine metabolism
1866	3610	NM 031044	d,General	Histidine metabolism
1867	15137	NM_031051	s	
1868	514	NM_031056	General	
			·	Inositol metabolism, Propanoate metabolism, Valine, leucine and isoleucine
1869	17269	NM_031057	General	degradation
1870	11849	NM_031065	а	
1871	1855	NM_031074	h	
1872	4683	NM_031083	d	
1873	15202	NM_031093	a	
1873	15201	NM_031093	a,n	
1874	12639	NM_031099	aa	
1875	20812	NM_031100	a	
1876	16938	NM_031103	w	
1877	19268	NM_031104	q	
1878	16929	NM_031108	9	· · · · · · · · · · · · · · · · · · ·
1879	10878	NM_031110	q,bb	
1880	19162	NM_031111	aa	<del></del>
1880	19161	NM_031111	a,bb	
1881	24615	NM_031112 NM_031113	a,y	
1882	20839	NM 031114	l,m,General	
1883 1884	16349	NM 031115	u	
1885	14970	NM_031115 NM_031127	General	
1886	1814	NM_031127	n,q	
1887	13359	NM 031135	General	
1888	15052	NM_031136	a	<del></del>
1888	19359	NM_031136	а	
1889	15185	NM 031140	General	
1890	21625	NM_031144	a,e	1
1891	238	NM_031152	bb	
1891	240	NM_031152	bb	
1892	15277	NM_031237	9	
1893	18083	NM_031315	q	
1893	1858	NM_031315	q	
1894	15663	NM_031318	General	
1895	1422	NM_031324	bb,General	
1896	18597	NM 031325	g,bb	Nucleotide sugars metabolism,Pentose an glucuronate interconversions,Starch and sucrose metabolism
1897	11259	NM 031327	i,cc,General	
1898	4235	NM_031330	General	

TABLES: P	ATHWAYS			Aliy, Doctol No. 44941-5939A Doc. No. 1793337
Sequence D No.	relitince)	ConBent Acc Rea Seq. ID No. 1	Model Code	Pathways
1899	18375	NM_031331	I,m	
1900	3519	NM_031334	cc	
901	20698	NM_031357	b	
903	634	NM_031509	n	Glutathione metabolism
903	25525	NM_031509	n	Glutathione metabolism
903	25069	NM_031509	b,n,w	
903	635	NM_031509	Z	Glutathione metabolism
1904	848	NM_031517	t	
1905	1872	NM_031523	a	<u> </u>
1905	16245	NM_031523	a,d,u	
1905	16244	NM_031523	a	
1906	9370	NM_031527	W	<del> </del>
1907	20448	NM_031530	General	ļ
1907	20449	NM_031530_	General	Andreas and astrono
1908	14633	NM 031533	u	Androgen and estrogen metabolism,Pentose and glucuronate interconversions,Porphyrin and chlorophy metabolism,Starch and sucrose metabolis
1909	16048	NM 031541	f	,
1910	4011	NM_031543	c,q	Fatty acid metabolism,Tryptophan metabolism
				Fatty acid metabolism, Tryptophan
1910	4010	NM_031543	c,q	metabolism
			1	Fatty acid metabolism, Tryptophan
1910	4012	NM_031543	q	metabolism
1911	28	NM_031546	General	
1912	24640	NM_031548	h,cc	
1913	17149	NM_031549	x	
1913	17151	NM_031549	x	
1914	13105	NM_031552	w	Fatty acid metabolism, Glycerolipid
1915	15411	NM_031559	d,r	metabolism
1916	16164	NM_031563	bb	
1917	9621	NM_031570		
1917	9620	NM_031570	w,bb	ļ
1918	546	NM_031573	f	
1919	1921	NM_031576	<u> </u>	
1919	1920	NM_031576	r.	ļ
1920	24219	NM_031579	i,General	
1921	770	NM_031584	k,x	
1922	18008	NM_031588	h	
1922	18005	NM_031588 NM_031588	cc,General	
1922	18011		L. General	
1923	1584	NM_031595	v	Pyrimidine metabolism
1924	24235	NM_031614	General	Pyrimidine metabolism
1924	24234	NM_031614 NM_031627	j,l,v	i yimidile metavoiism
1925 1926	1639 1727	NM 031642	m,General	
1926	20766	NM 031643	y y	
1927	1993	NM_031655	k,l,m,General	
1929		NM 031660	e e	
	2057		k,General	
	15039	NM_031672	n, Golloidi	Butanoate metabolism,Fatty acid biosynthesis (path 2),Fatty acid metabolism,Lysine degradation,Tryptoph; metabolism,Valine, leucine and isoleucine
1932	15175	NM_031682	bb	degradation
1933	1004	NM_031685	V	
1934	19727	NM_031687	a,q,s	
1935	20404	NM_031700	j,r,y	
1935	20405	NM_031700	o,r	1

VABUE 2: P	ZYAWAWAY	李 朱 黄 4	Marie Art	Wily. <u>poe</u> del No. 44924-6939W Doe. No. 1726397.
Seguence. D.No.	i. Seliffaeld	Cenden's Acci Rel Sec. 10 No. 44	Model Code	Pelloways:
1936	811	NM_031705	General	Pantothenate and CoA biosynthesis,Pyrimidine metabolism,beta- Alanine metabolism Pantothenate and CoA
1936	812	NM 031705	o,v,bb,General	biosynthesis, Pyrimidine metabolism, beta- Alanine metabolism
1937	16204	NM 031706	g,bb	
1937	16205	NM 031706	a,y	
1938	24081	NM 031708	m	
1939	16918	NM_031709	a,q	
1940	1081	NM_031712	General	
1941	1340	NM_031715	b,n,u,cc, General	Fructose and mannose metabolism,Galactose metabolism,Glycolysis / Gluconeogenesis,Pentose phosphate cycle
1942	23884	NIA 024724	ie	Arginine and proline metabolism,Ascorbate and aldarate metabolism,Bile acid biosynthesis,Butanoate metabolism,Fatty acid metabolism,Glycerolipid metabolism,Histidine metabolism,Lysine degradation,Propanoate metabolism,Pyruvate metabolism,Tryptophan metabolism,Valine, leucine and isoleucine degradation,beta-Alanine metabolism
		NM_031731 NM_031740	j,s	Alanine metabolism
1943 1944	10241 1214	NM 031740	d r	
1944	1214	NM 031741	r	
1944	20724	NM 031753	h	
1946	20753	NM 031763	h	
1946	20752	NM_031763	у	
1947	14953	NM 031774	<b>у</b>	<del></del>
1948	14184	NM 031776	t.General	Purine metabolism
1948	14185	NM 031776	d,o,t,General	Purine metabolism
1949	1169	NM 031789	C	T dillo tiloaddiloii
1950	16155	NM 031810	d,z	
1950	16156	NM 031810	d	•
1951	17194	NM 031814	z	
1952	17535	NM 031816	bb	
1953	2655	NM 031821	i,l,m,aa	
1954	10167	NM 031830	1	
1955	22321	NM 031832	o,t,u,General	
1956	4748	NM 031834	e,t	
1956	4749	NM_031834	e,t	
				Alanine and aspartate metabolism, Glycine,
1957	7914	NM_031835	е	serine and threonine metabolism
1958	8385	NM_031836	h	
1958	8384	NM_031836	h	
1959	10268	NM_031838	а	
	10269	NM_031838	aa	l ==
1959				
1959	10267	NM 031838	n,aa	
1959 1960	10267 15077	NM_031838 NM_031841	b	
1959 1960 1961	10267 15077 16726	NM_031838 NM_031841 NM_031855	b x	Fructose and mannose metabolism
1959 1960 1961 1962	10267 15077 16726 25802	NM_031838 NM_031841 NM_031855 NM_031969	b x a	Fructose and mannose metabolism
1959 1960 1961 1962 1962	10267 15077 16726 25802 19191	NM_031838 NM_031841 NM_031855 NM_031969 NM_031969	b x a c	Fructose and mannose metabolism
1959 1960 1961 1962 1962 1962	10267 15077 16726 25802 19191 19195	NM_031838 NM_031841 NM_031855 NM_031969 NM_031969 NM_031969	x a c	Fructose and mannose metabolism
1959 1960 1961 1962 1962 1962 1962	10267 15077 16726 25802 19191 19195 19190	NM_031838 NM_031841 NM_031855 NM_031969 NM_031969 NM_031969 NM_031969	b x a c r	Fructose and mannose metabolism
1959 1960 1961 1962 1962 1962 1962 1963	10267 15077 16726 25802 19191 19195 19190	NM_031838 NM_031841 NM_031855 NM_031969 NM_031969 NM_031969 NM_031969 NM_031969	b x a c r p v,General	Fructose and mannose metabolism
1959 1960 1961 1962 1962 1962 1962 1963	10267 15077 16726 25802 19191 19195 19190 17734	NM_031838 NM_031841 NM_031855 NM_031969 NM_031969 NM_031969 NM_031969 NM_031969 NM_031970 NM_031970	b x a c r p v,General v	Fructose and mannose metabolism
1959 1960 1961 1962 1962 1962 1962 1963 1964 1964	10267 15077 16726 25802 19191 19195 19190 17734 1475 15470	NM_031838 NM_031841 NM_031855 NM_031969 NM_031969 NM_031969 NM_031969 NM_031970 NM_031970 NM_031971	b x a c r p v,General v f	Fructose and mannose metabolism
1959 1960 1961 1962 1962 1962 1962 1963	10267 15077 16726 25802 19191 19195 19190 17734	NM_031838 NM_031841 NM_031855 NM_031969 NM_031969 NM_031969 NM_031969 NM_031969 NM_031970 NM_031970	b x a c r p v,General v	Fructose and mannose metabolism

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। ।(प्रश्नमद्भयः (१	WILLIAM WAYS	The second		/Aiiy-Docket No. 4/1271-6939W0 Doc. No. 1793697.1
Sequençes .		ConBant Acel Ref. Seq. ID No.	FD - 4-1 G - 4-	Pathmens (A)
Dľo. F				Pathways & Kit
1969	17935	NM_032615	a	
1970	16831	NM_033095	n	
1971	25468	NM_033234 NM_033234	c,z	
1971 1971	25469 17832	NM 033234		
1971	17829	NM 033234	c,p c,z	<del> </del>
1972	4723	NM 033235	z	
1973	1409	NM 033349	p,General	Pyruvate metabolism
1974	19998	NM 033352	General	
1975	1410	NM_052798	d	
1976	15028	NM_052809	f	Cysteine metabolism, Taurine and hypotaurine metabolism
1977	5176	NM_053297	U	
1978	7660	NM_053299	1	·
1979	5117	NM_053310	P	
1981	17473	NM_053319	a,v	<u> </u>
1982 1982	25480 21977	NM_053329 NM_053329	9 v	
1983	14926	NM 053330	f	
1983	14929	NM 053330	e.General	
1984	16407	NM 053332	c,e	
1985	15790	NM 053341	j,x	
1986	6154	NM 053356	p	
1987	9215	NM 053374	li	
1988	6416	NM 053380	General	
1989	19113	NM 053395	а	
1990	2242	NM_053433	n,General	
1991	5561	NM_053438	у	
1992	14670	NM_053439	n,General	
1993	17102	NM_053440	w	
1994	24762	NM_053442	General	
1995	8085	NM_053453	General	
1996	4622	NM_053463	d	
1997	21866	NM_053472	<u> </u>	
1998	9573	NM_053475	h	
1999	16137	NM_053480 NM_053483	k v	
2000	15556 16394	NM 053485	General	
2002	4290	NM 053487	J.y	
2002	18826	NM 053523	d	
2005	7764	NM 053525	aa	<del></del>
2006	14199	NM 053538	c ·	
2007	1058	NM_053539	c,d	
2008	4327	NM_053563	General	
2009	1342	NM_053573	h	
2010	19254	NM_053576	h,s	Methane metabolism,Phenylalanine metabolism
2010	19253	NM_053576	h	Methane metabolism,Phenylalanine metabolism
2011	3049	NM_053582	p,cc,General	
2011	3050	NM_053582	o,General	
2012	21423	NM_053586	s,y	Oxidative phosphorylation
2013	21445	NM_053587	t,v	
2014	20871	NM_053591	],!	
2014	20870	NM_053591		
2015	21044	NM_053594	d	
2016	21709	NM_053596	k z	
2016 2017	21708 1597	NM_053596 NM_053611	it .	
2017	5565	NM 053618	General	
2019	13004	NM_053623	t	Fatty acld metabolism
	1.000		<u> </u>	<u> </u>

raeuear P	ZYAWATTA			ALLY, Docket No. 44924-5039W Dock No. 1798997.
Sequence. D(Vel:	ldenlijer	Condent Acci   Ref. Seq. ID No."	Model Gode	Pathways 4
				Arginine and proline metabolism, D-Arginine
				and D-omithine metabolism, Glycine, serine
2020	1127	NM_053626	9	and threonine metabolism
2021	18644	NM_053648	n	
2022	21637	NM_053653	р	
2023	3454	NM_053662	CC	
2024	16121	NM_053698 NM_053698	h,j,z h,j,z	
2024 2025	16122 25379	NM 053713	General	
2025	13622	NM 053713	General	
2026	15376	NM 053747	h	
2027	1218	NM 053748	b	
2028	1137	NM 053763	v	
2029	15996	NM 053769	cc	
2030	8652	NM 053774	g	
2031	14664	NM 053806	General	
2032	4361	NM_053812	k	
2034	15002	NM_053819	b,x,bb,General	
			b,l,x,bb,	
2034	15003	NM_053819	General	
2035	16173	NM_053822	t	
2036	17154	NM_053835_	j,z	
2037	20868	NM_053843	t	
2037	20869	NM_053843	t	
2040	714	NM_053863	у	
2041	19781	NM_053883	b	
2041	19780	NM_053883	Ь	
2042	1454	NM_053887	General	
2043	1660	NM_053891	9	
2044	712	NM_053896	k	
2045	753	NM_053897	k Consent	Taraban matabalian
2046	794	NM_053902	General	Tryptophan metabolism
2047	17937	NM_053911 NM_053927	General	
2048 2050	8188 1628	NM 053936	h	
2050	13954	NM 053955	General	
2052	408	NM 053961	General	
2052	19991	NM 053961	a	
2052	16190	NM 053961	q	
2052	21355	NM 053961	j,l,y,z	
2055	15136	NM 053971	aa	
2055	15135	NM 053971	d	
2056	1764	NM 053974	h	
2057	1292	NM_053980	1	
2058	15468	NM_053982	q	
2059	15642	NM_053985	General	
2060	21066	NM_054001	t	
2061	17326	NM_054008	0	
2061	17327	NM_054008	cc	
2061	17329	NM_054008	g,o,cc	
2062	25253	NM_057099	j,l,m,p,z	
2062	22849	NM_057099	<u>  [.l</u>	
2063	19657	NM_057103	b,cc	A disease and sales as
				Androgen and estrogen
		1		metabolism,Pentose and glucuronate
2064	5400	NIM OFTER	l.,,	interconversions, Porphyrin and chlorophylimetabolism, Starch and sucrose metabolis
2064	5492	NM_057105	w	Androgen and estrogen
	1			metabolism,Pentose and glucuronate
		1	l	interconversions, Porphyrin and chlorophyl
	15126	NM 057105	l <sub>r</sub>	metabolism, Starch and sucrose metabolis

TABUES: (	PATHWAYS			Aiiy, Dookel No. 44921-5039W Doo, No. 1798397,
D Ko.".	leiniliter	Cenbent Acel Rel Seg. D No.	එමෙම ලාගේ	Pelloweys
				Androgen and estrogen
		1	1	metabolism,Pentose and glucuronate
				interconversions, Porphyrin and chlorophyll
2064	15125	NM_057105	8	metabolism,Starch and sucrose metabolis
2066 2067	15391 727	NM_057114 NM_057123	m m	
2068	915	NM 057124	s	
2069	15151	NM 057131	k	
2070	1892	NM 057144	b	
2071	12333	NM 057155	f	
2071	12331	NM 057155	v,General	
2071	12332	NM_057155	f,General	
2072	17477	NM_057194	a,General	
2073	15408	NM_057197	p,t	
2073	15409	NM_057197	It .	
2074	7866	NM_057198	h	Glutamate metabolism, Purine metabolism
2075 2076	14125	NM_057208 NM_057210	h,j,y,z	
2076	1743	NM 078617	k,s a	
2078	8820	NM 080399	n	
2079	15701	NM 080581	j,m,y,z	
2079	20105	NM 080581	aa	· · · · · · · · · · · · · · · · · · ·
2080	16109	NM 080585	C	
2081	1757	NM 080766	d	
2082	7108	NM 080778	у	
2083	132	NM_080782	k	
2083	133	NM_080782	1	
2084	20122	NM_080887	General	
2085	6143	NM_080892	е	
2086	9952	NM_080902	h	
2087	17546	NM_130401	b	
2088	21695	NM_130411	C,X	
2089	21391	NM_130416	x,General General	
2090 2090	20694 19818	NM_130430 NM_130430	CC	
2090	18810	NM 130430	e,s	
2091	18293	NM 130433	q	Bile acid biosynthesis, Fatty acid biosynthesis (path 2), Fatty acid metabolism, Phenylalanine metabolism, Valine, leucine and isoleucine degradation
2092	25064	S45392	a,n	
2093	3244	S63519	u	
2094	25501	\$63521	q	
2095	16248	S68135	h	
2096	18647	S69316	9	
2097	24351	S74257	V	
2098	25066	S75280	d	
2099	1460	S76054	j,l,m,x,y, General	
2099 2100	25539	S76742	v	
2100 2101	16400	S76779	c	
2102	24469	S77858	n	
2103	25545	\$77900	k,s	
2103	21583	S77900	k	
2104	10260	S81497	s	
2105	3609	S82579	k	Histidine metabolism
2106	111	U02506	u	
2107	14959	U03390	a,q,General	
2109	2010	U05675	b,x,bb	
2110	15462	U06230	d	
2112	1583	U07201	s,General	
2113	627	U09229	h	l

TABUE 28 V	PATHWAYS	· ·		AKTY, Doctet No. 44924-5039W Doc. No. 1793397
D No.'	ldenilier	GenBenk Acel Ref. Seg. (D Ne.)	Model Gode:	Pallaways .
2114	809	U17035	General	
2115	16675	U17565	k,x,bb	
2116	25587	U20110	Γ	
2117	90	U20796	r	
2118	25589	U21718	h,aa	
2119 2120	22196	U21719 U25746	h	
2120	17118 1537	U27518	g,h,n	
2122	1558	U28504	bb	
2123	16193	U30831	n	
2124	17480	U31598	z	
2125	18302	U33500	General	
2126	25599	U34897	у	
2127	1394	U37099	h :	
2128	244	U38376	n	
2129	1623	U41164	h	<u></u>
2130 2131	15851	U42719	f,t,x,General	
2131 2132	17886	U47315 U53184	i,t,General	
2132	1439	U57391	w	
2134	725	U62316	bb	
2137	2153	U75404	b,cc,General	
2139	4956	U76714	j.y	
2140	4477	U77829	l,m	
2141	21703	U82591	Z	
2142	977	U89744	S	
2143 2144	23282	U90725	h	
2146	819	U96490 X02284	j,z	Carbon fixation, Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Inositol metabolism, Pentose phosphate cycle
2147	818	X02291	e.j,z	Carbon fixation, Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Inositol metabolism, Pentose phosphate cycle
2148	20818	X02904	n,q	Glutathione metabolism
2149	16401	X04979	С	
2150	20513	X05684	o,r	Carbon fixation, Glycolysis / Gluconeogenesis, Purine metabolism, Pyruvate metabolism
2151	25084	X06769	cc .	
2152	672	X13722	h	
2153 2153	25675 20810	X14181 X14181	n,q,w	
2154	18541	X14671	y y	
2155	25679	X15013	9	
2155	19244	X15013	c,q,w	
2156	15626	X17665	a .	
2157	1893	X51529	t	Glycerolipid metabolism,Phospholipid degradation,Prostaglandin and leukotriene metabolism
2158 2158	25686 10819	X51536 X51536	aa,bb	
2159	18250	X51706	a,q,w	
2160	20872	X51700	a,q,w	
2161	516	X52711	c	<del></del>
2162	25689	X52815	9	
2163	20427	X53378	w	
2164	18606	X53504	General	
2165	1463	X54467	d,u,General	
2166	24577	X55153 ·	a,v	
2167	10344	X57405	j,m	<u> </u>

TABLEZ: P	ATIHWAYS			ANTY, DOCKET NO. 44921-50897/0
0000000	000000000000000000000000000000000000000			🏥 🛴 🗓 Dog. No. 1793997.1
Sequence	N. 40	CenBanix Acel	·	Pathways
DÃO.	reillinebi	Ref. Seq. (D No.#?	Model Gode .	Pathways
2168	15106	X57529	g,n,q	
2169	5667	X58200	q,bb	
2169	18611	X58200	a,v	
2170	17175	X58389	w	
2171	25702	X58465	w	
2171	10109	X58465	c.q	
2172 2173	25705	X59375	c,i,aa,General	<del></del>
2174	25709 18354	X59737 X59859	u General	
2174	18355	X59859	t	
2175	21657	X61381	General	
2176	25718	X62145	bb,General	
2176	15875	X62145	a,q,v	
2177	13646	X62166	bb	
2178	25721	X62325	D	7-
2179	16012	X62875	m,s,z	
2180	25730	X63369	CC	
2181	25089	X63594	General	
2181	25090	X63594	cc,General	
2182	20844	X65228	n,w	
2183	20879	X65296	j.y	
2184	25736	X68782	С .	
2185	16426	X70369	С	
2186	16300	X70706	u	
2187	24232	X75207	С	
2188	16272	X76456	n,p	
2189	25741	X76489	u	
2190	23302	X78949	h	
2191	25747	X81448	General	
2192	24115	X81449	u	
2193	25754	X89696	9	<u> </u>
2194 2195	25097	X90642	y,z	
2195	12978 4594	X96437 Y07704	cc,General	
2197	25777	Y08355	c g,p,General	
2198	15986	Y09945	bb,General	
2200	20890	Y13275	k	
2201	21914	Y13336	d	
2202	406	Z11995	o.General	
2203	18352	Z12298	t	
2204	17481	Z49761	k	
2205	8664	Z75029	r,v	
2206	2459	AA964755	œ	
2207	23830	AA956638	aa	
2208	6100	X73524	x	
2209	439	Z22607	w	
2210	8665	AI071965	٧	
2211	155	U32681	t	
				Methane metabolism,Phenylalanine
2212	19252	AA892041	s	metabolism
2213	15582	AI232320	q	
2214	17541	M26125	n	
2215	18609	M30689		
2216	6262	Al177125	g	
2217	23859	AI072161	f	
2218	21011	H32189	e	Glutathione metabolism
2220	2572	AI177143	b	
2221	25419	M22922	а	

TABLES	k HUMAN	HOMOLOGAEV	EKIOTATIONS		Auy, Docket No. 4421-5039WC Doc. No. 1793397.1
Georg (III)		Carpart Ass I	10.00	Homologous Gama	Poss War 1/62000/21
No.		Rel Seq ID No.	Model Code	Kenegere Eme Kenegere	Homologous Chefer Namo
1	6949	AA012785	9		
2	25098	AA108277	h,v		
					EST, Moderately similar to A Chain A, Mdm2 Bound To The Transactivation Domain Of P53 (SUB 17-125 [H.sapiens], mouse double minute 2, human homolog of; p53-binding
3	17312	AA108308	r		protein NADH dehydrogenase (ubiquinone) 1
4	16882	AA684537	0		beta subcomplex, 5 (16kD, SGDH) EST, Weakly similar to T30827
. •					nascent polypeptide-associated complex alpha chain, non-muscle splice form - mouse [M.musculus], FKSG17, Homo sapiens alpha-NAC gene for nascent polypeptide-associated complex component, KIAA0363 protein, expressed sequence AL022831, nascent-
					polypeptide-associated complex alpha
5 6	6049	AA685178 AA685974	У		polypeptide
7	4426 21815	AA686423	(I,m		EST, Weakly similar to T46390 hypothetical protein DKFZp434C1920.1 [H.saplens], hepatocellular carcinoma-associated antigen 59
				DNA-damage inducible transcript 3, DNA-damage-	DNA-damage inducible transcript 3, EST, Moderately similar to GA15_HUMAN GROWTH ARREST AND DNA-DAMAGE-INDUCIBLE PROTEIN GADD153 [H.sapiens],
8	1600	AA686470	i	inducible transcript 3	myozenin
	1599	AA686470	i	DNA-damage inducible transcript 3, DNA-damage-inducible transcript 3	DNA-damage inducible transcript 3, EST, Moderately similar to GA15_HUMAN GROWTH ARREST AND DNA-DAMAGE-INDUCIBLE PROTEIN GADD153 [H.sapiens], myozenin
9	21997	AA799325	u		
10	18396	AA799330			ESTs, Highly similar to ERR3_HUMAN ESTROGEN-RELATED RECEPTOR GAMMA [H.sapiens], Untitled, estrogen related receptor, alpha, estrogen related receptor, beta,
11	6581	AA799412	t.i		estrogen-related receptor beta ESTs, Moderately similar to NPL4_HUMAN NUCLEOSOME ASSEMBLY PROTEIN 1-LIKE 4 [H.sapiens], ESTs, Weakly similar to NPL4_HUMAN NUCLEOSOME ASSEMBLY PROTEIN 1-LIKE 4 [H.sapiens], SET translocation, nucleosome assembly protein 1-like 1,
12	16538	AA799449	k		nucleosome assembly protein 1-like 4
13	23294	AA799472	u		CGI-116 protein
14	18290	AA799497	r		

TABLES	F KANNAN	HONOLOGAÉ VI	INOTATIONS		Atty, Docket No. 44921-5039W6 Doc. No. 1793897.
999, ID No. :	rollliebi	ConConk Accel: Roll Sog. ID Nor	Model Code :	Momologous Cono Name	Honologous Chreter Name
					DAZ associated protein 1, ESTs, Highly similar to ROA1 RAT
					HETEROGENEOUS NUCLEAR
					RIBONUCLEOPROTEIN A1
		•			[R.norvegicus], ESTs, Moderately
			ŀ		similar to Up1, The Two Rna-
			·		Recognition Motif Domain Of Hnmp A
					(SUB 3-184 [H.sapiens], ESTs,
					Weakly similar to ROA1 RAT
					HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1
		i			[R.norvegicus], ESTs, Weakly similar
					to ROA2 MOUSE HETEROGENEOUS
					NUCLEAR RIBONUCLEOPROTEINS
					A2/B1 [M.musculus], RIKEN cDNA
					3010025E17 gene, Ras-GTPase
					activating protein SH3 domain-binding
					protein 2, Ras-GTPase-activating
					protein SH3-domain binding protein,
					cell death regulator aven, heterogeneous nuclear
					ribonucleoprotein A1, heterogeneous
15	18981	AA799523	e		nuclear ribonucleoprotein A2/B1
					EST, Moderately similar to A38983
					TCP1 ring complex protein TRiC5
					[H.sapiens], T-complex 1, chaperonin
					containing TCP1, subunit 3 (gamma),
	20242	A A 700E 4E	_	1	expressed sequence Al528772, t-
16 17	20843 16993	AA799545 AA799560	h b		complex 1, t-complex protein 1
18	16576	AA799570	d		
	10010	70.1000.10			EST, Moderately similar to 138369 beta
			,		tubulin [H.sapiens], ESTs, Highly
					similar to I38370 beta-tubulin
					[H.sapiens], ESTs, Highly similar to
					T08726 tubulin beta chain [H.sapiens],
					ESTs, Highly similar to TBB1 RAT TUBULIN BETA CHAIN
			·		[R.norvegicus], ESTs, Moderately
		,			similar to 138370 beta-tubulin
					[H.sapiens], RIKEN cDNA
					2410129E14 gene, RIKEN cDNA
					4930447K03 gene, RIKEN cDNA
					4930542G03 gene, Rat mRNA for beta
40	40004	A A 700504	,		tubulin T beta15, beta tubulin 1, class
19 20	18361 17712	AA799591 AA799598	7		VI, tubulin, beta 3, tubulin, beta, 2
22	18346	AA799718	1		
23	8768	AA799726	1		
					DiGeorge syndrome chromosome
į					region 6, DiGeorge syndrome critical
					region gene 6, DiGeorge syndrome
24 25	11687	AA799732	w		critical region gene 6 like
25	18349	AA799744	U		·
26 27	17494 18360	AA799751 AA799771	n General		
28	18880	AA799801	W		
					EST, Moderately similar to
					MAS2_HUMAN MANNAN-BINDING
					LECTIN SERINE PROTEASE 2
					PRECURSOR [H.sapiens], Rattus
				,	norvegicus mRNA for serine protease,
					complete cds, complement C1r-like
					proteinase precursor,, complement
					component 1, r subcomponent,
, a	20008	A A 700902			
29	20998	AA799803	z		component 1, 7 subcomponent, complement component 1, s subcomponent, protein C

اكفاتانان	e reminera	HOMOLOGUEA	· · · · · · · · · · · · · · · · · · ·		Ally, Docket No. 44921-603 Doc, No. 1793
Seg. ID No. ': ***	ldentiler	ConBank Ace./ Ref. Seq. (D No.	Modal Goda	Homologous Cono Namo	Homologova Civator Namo.
30	21006	AA799861	С		interferon regulatory factor 7
					ESTs, Moderately similar to Up1, Two Rna-Recognition Motif Doma Hnmp A1 (SUB 3-184 [H.sapiens] ESTs, Weakly similar to ROA1 RAHETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 [R.norvegicus], ESTs, Weakly sim to heterogeneous ribonuclear part
				·	protein A1 [H.sapiens], Human DI sequence from clone RP11-51N2 chromosome 13 Contains ESTs, S
					and GSSs. Contains an HNRPA1 (heterogeneous nuclear ribonucleoprotein A1) pseudogene RIKEN cDNA 4930547K05 gene, heterogeneous nuclear
31	15011	AA799893	General		ribonucleoprotein A1
32	20811	AA799899			EST, Moderately similar to RL1X_HUMAN 60S RIBOSOMAL PROTEIN L18A [H.sapiens], EST, Weakly similar to RL1X_HUMAN 61BOSOMAL PROTEIN L18A [H.sapiens], EST, Weakly similar s47353 ribosomal protein L18a, cytosolic [H.sapiens], ESTs, Highl similar to RL1X_HUMAN 60S RIBOSOMAL PROTEIN L18A [H.sapiens], RIKEN cDNA 251001 gene, ribosomal protein L18a
33	23202	AA799971	General		
34	4832	AA800190	b		ESTs, Moderately similar to 17014 glycogen phosphorylase [H.sapier ESTs, Weakly similar to 1701409/ glycogen phosphorylase [H.sapier phosphorylase, glycogen; brain
35	21656	AA800202	d	<del> </del>	
36	18433	AA800218 AA800235	j,y,z u	<del> </del>	
37 38	6386 18442	AA800258	h,k		
36					ONA segment, Chr 14, University California at Los Angeles 2, Hydroxysteroid dehydrogenase, 1 beta type 1, expressed sequence C79874, hydroxysteroid (11-beta) dehydrogenase 1, hydroxysteroid beta dehydrogenase 1, hydroxyst 17-beta dehydrogenase 11, retina short-chain dehydrogenase/reduc
39	21092	AA800380	y		retSDR2
40	17325	AA800587	General		ESTs, Highly similar to GSHG_MOUSE GLUTATHIONE PEROXIDASE-GASTROINTESTI (GSHPX-GI) [M.musculus], Glutathione peroxidase 1, glutathip
41	13930	AA800613	cc, General		zinc finger protein 36, zinc finger protein homologous to Zfp-36 in mouse
42	21372	AA800693	V		
42	21373	AA800693	S		
43	18161	AA800701	k		
44	6595	AA800753	w		

TABLES	BE CHUMAN	KONOLOGUEAN	INOTATIONS -	ergent state of the gar	. Ally, Doctol No. 44921-5039W0
309. ID,		ConCank Acc.	1 - 1 - 3 - 4	Homologous Gene	Dog. No. 1793897.1
Ko	liderillier			Namo :	early related every leading the
					EST, Weakly similar to H2AL_HUMAN
	1				HISTONE H2A.L (H2A/L) [H.sapiens],
					H2A histone family, member L, similar
l.,					to H2A histone family, member A (H.
46	23115 12399	AA801165 AA801307	o,y General		sapiens)
47 48	7543	AA801395	General		
49	24237	AA817726	t.General		
50	11215	AA817921	0		
51	5985	AA818005	9		
			<u> </u>		EST, Weakly similar to RB6K MOUSE
					RABKINESIN-6 [M.musculus], RAB6
	i		<b>}</b>		interacting, kinesin-like (rabkinesin 6),
			i		RIKEN cDNA 3110001D19 gene,
52	11338	AA818016	x		Rab6, kinesin-like
			!		COP9 (constitutive
l	j				photomorphogenic), subunit 6
	i	i			(Arabidopsis), Homo sapiens cDNA
	1				FLJ14833 fis, clone OVARC1001171,
		ľ			moderately similar to Homo sapiens translation initiation factor 3 47 kDa
					subunit mRNA, IFP38, RIKEN cDNA
					0610037M02 gene, eukaryotic
					translation initiation factor 3, subunit 5
					(epsilon, 47kD), hypothetical protein
					MGC13045, proteasome (prosome,
1					macropain) 26S subunit, non-ATPase,
53	2845	AA818026	k,General	(-)	7
54	16756	AA818089	i,k,General		glycyl-tRNA synthetase
				•	EST, Weakly similar to S45140 tubulin
					beta chain [H.sapiens], RIKEN cDNA
					2410129E14 gene, RIKEN cDNA
					4930542G03 gene, tubulin, beta 2,
l		l			tubulin, beta 5, tubulin, beta
55	17771	AA818224	e,g,p,General		polypeptide, tubulin, beta, 2
56	6522 5924	AA818261 AA818359	g,m v		
57 58	7806	AA818421	b,aa		
59	8237	AA818512	v v		
60	17434	AA818574	h	<del></del>	
61	8728	AA818615	General		
-	1			diphtheria toxin receptor	
	į			(heparin-binding epidermal	diphtheria toxin receptor (heparin-
	i			growth factor-like growth	binding epidermal growth factor-like
				factor), heparin binding	growth factor), expressed sequence
				epidermal growth factor-	AW047313, heparin binding epidermal
62	6054	AA818658	b.v.cc,General	like growth factor	growth factor-like growth factor
63	11590	AA818721	d		
64 65	4291	AA818741	q,General		
65	4330	AA818747 AA818761	o,General v.General		
66 67	19723 13684	AA818761 AA818770	h,j,l,m		
68	6322	AA818801	n,j,i,m k		
JO	U322	LA40 1000 I	<u> </u>		expressed sequence AV066530,
		· ·			guanylate cyclase activator 28
					(uroquanylin), quanylate cyclase
69	7690	AA818875	General		activator 2b (retina)
70	4952	AA818907	g.General		Variable Control
71	6094	AA818911	1		
72	10985	AA818998	o,General		
72 73	6120	AA819008	t		

INSTER	CAMMAN	HOMOLOGUE AN	ROTATIONS	A MENT OF THE PARTY OF THE	4 4417, Doctoi No. 44921-5033000 Doc. No. 1793397.1
Ség. (D : Not : : :	ldenilier	ConCent Ace./ * Rel Seq. ID No.	Modal Goda .	Homologous Cens Name : Chek	Homologous Chelor Keino
					CocoaCrisp, ESTs, Weakly similar to JC5308 testis-specific, vespid, and pathogenesis-related protein 1 precursor [H.sapiens], Homo sapiens, Similar to RIKEN cDNA 1700011E04 gene, clone MGC:26856 IMAGE:4822995, mRNA, complete cds, RIKEN cDNA 1200009H11 gene, RIKEN cDNA 1200009H11 gene, RIKEN cDNA 4921508O11 gene, acidic epididymal glycoprotein-like 1, glioma pathogenesis-related protein, specific granule protein (28 kDa), testis specific gene 1, testis specific protein
74	2586	AA819081	c		1, testis specific protein 1 (probe H4-1 p3-1)
76	6438	AA819269	0	-	
77	24721	AA819306	d.w		
78	6250	AA819376	o,y		ESTs, Weakly similar to T17246 hypothetical protein DKFZp586M0617.1 [H.sapiens], KIAA0263 gene product, mammalian inositol hexakisphosphate kinase 2
70	0230	74.013310			HYA22 protein, conserved gene amplified in osteosarcoma, nuclear
80	6281	AA819517	j		LIM interactor-interacting factor
81	10141	AA819526	j		
82	6551	AA819558	t		
83	6723	AA819653	r		
84	14958	AA819744	aa		
85	19433	AA819776	v		ESTs, Highly similar to HS9B RAT HEAT SHOCK PROTEIN HSP 90-BETA [R.norvegicus], expressed sequence AL024080, expressed sequence C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1
86	6204	AA819889	aa		0.40004
0.7	2222	AA040045	Const	·	GMPR2 for guanosine monophosphate reductase isolog, IMP (inosine monophosphate) dehydrogenase 2, RIKEN cDNA 2310004P21 gene, RIKEN cDNA 5730544D12 gene, expressed sequence AA959850, guanosine monophosphate reductase, inosine 5'-phosphate dehydrogenase 2
87	22820	AA848315	General		inosite 3 -phosphate deliyologenase 2
88 89	21125	AA848389 AA848437	General		
90	23504	AA848496			ESTs, Moderately similar to IF4B_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 4B [H.saplens], eukaryotic translation initiation factor 4B
			q	,	ESTs, Highly similar to FMO2_HUMAN DIMETHYLANILINE MONOOXYGENASE [H.sapiens], Flavin-containing monooxygenase 1, flavin containing monooxygenase 2, flavin containing monooxygenase 3,
91	18532	AA848675	9		hypothetical protein PRO1257
92	21140	AA848738	c	ļ	
93	16128	AA848807	0		
94	22923	AA848929	9		
95	17339	AA849497	General		<del> </del>
96 97	11727	AA849518	li Coccest	<del> </del>	
	21275	AA849796	i,I,m,General	1	

TABLES	: KAMWAXI	Koworoga <u>s</u> y	CXOTATOXS		Ally, Dockel No. 44971-5039WG Doc. No. 1793F97.
9:07 (ID	lcle all ler	Corbail Acel Rel Seq. Id No.		Monologous Cono Mano	Homologous Gluster Name
98	16678	AA849827	aa		
99	8515	AA849917	е		
100	18447	AA849939 .	General		
101	12130	AA850037	P		
102	23981	AA850040	x,aa		RIKEN cDNA 2810452G09 gene, adenylyl cyclase-associated CAP protein homolog 1 (S. cerevisiae, S. pombe), adenylyl cyclase-associated protein
103	13615	AA850364	14	<del></del>	DKFZP434O125 protein
105	2637	AA850893	X		DKF2P4340125 protein
106	22093	AA850909	d		
	21766	AA850916	C		ESTs, Highly similar to LB4D_HUMAN NADP-DEPENDENT LEUKOTRIENE B4 12-HYDROXYDEHYDROGENASE [H.sapiens], ESTs, Weakly similar to FAS RAT FATTY ACID SYNTHASE [R.norvegicus], ESTs, Weakly similar to LB4D_HUMAN NADP-DEPENDENT LEUKOTRIENE B4 12-HYDROXYDEHYDROGENASE [H.sapiens], crystallin, zeta, fatty acid
108	2847	AA850919	w	<u>                                     </u>	synthase
109	12162	AA850975	h		
110	9514	AA850978	General		
111	3924	AA851017	e,q		
111	3925	AA851017	o,General		
112	4490	AA851184	a.k		cathepsin Z
113	19187	AA851230	General	<del></del>	
114	19189	AA851237	c		RIKEN cDNA 1110058H21 gene, ubiquitin specific protease 18
115	15386	AA851241	m		breast cancer metastasis-suppressor  1, hypothetical protein MGC11296
116	21462	AA851261	g,l,General		ART-4 protein
117	21471	AA851343	General		
118 119	16902 23376	AA851379 AA851392	p i,x		NADH dehydrogenase (ubiquinone) Fe S protein 8 (23kD) (NADH-coenzyme Q reductase) kinesin-like 4
119	23377	AA851392	x		kinesin-like 4
120	13349	AA851417	General		
121	21527	AA851733	r.u		
122	4048	AA851814	i,o,u,General		EST, Moderately similar to PM17 MOUSE MELANOCYTE PROTEIN PMEL 17 PRECURSOR [M.musculus] Homo sapiens, Similar to glycoprotein (transmembrane) nmb, clone MGC:1696 IMAGE:3345861, mRNA, complete cds, glycoprotein (transmembrane) nmb, silver
		AA851871			signal sequence receptor, alpha (translocon-associated protein alpha)
123	17411	AA858621	j.y		(transocon-associated protein alpha) ESTs, Weakly similar to A60021 tropomyosin-related protein, neuronal- rat [R.norvegicus], RIKEN cDNA 0710005K15 gene, expressed sequence R75279, reticulon 1, reticulon 3
125	1801	AA858636	k,s,x,bb		expressed sequence Al747533, mini chromosome maintenance deficient 7 (S. cerevisiae), minichromosome maintenance deficient (S. cerevisiae)
126	18350	AA858674	Р		
127	19484	AA858693	8		L
128	6360	AA858696	d		

TABLES	s kanaa	HONOROGAE VI			Ally: Docket No. 44921-6939XXX Doc. No. 1793397.1
Sog, (ID) No. 1: 5	liniller:	Ceneanti Ace. Ref: Sec. ID No:	Model (600)	Homelogous Gond :: Namo &	Honologous Gluster Kanc
					exostoses (multiple) 1, exostoses
129	17334	AA858704			(multiple)-like 1, expressed sequence AA409028
130	6380	AA858758	q		A403020
131	13219	AA858759	а		
132	6384	AA858788	I,m,General		
134 135	13412 7279	AA858830 AA858892	þ		LanC (bacterial lantibiotic synthetase component C)-like, LanC (bacterial lantibiotic synthetase component C)-like 1, RIKEN cDNA 1700003F10 gene
136	18217	AA858930	t		
137	5867	AA858953	v,General		asparaginyl-tRNA synthetase, hypothetical protein FLJ23441
					Interleukin 1 receptor accessory protein, Mus musculus IL-1Rrp2 mRNA, complete cds, interleukin 1 receptor accessory protein-like 2, interleukin 1 receptor, type I,
138	14479	AA858969	<u>r</u>		interleukin 18 receptor 1
139 140	6431 17361	AA859085 AA859114	o,General		
141 142	21025 10076	AA859241 AA859271	General c		EST, Highly similar to OM25_RAT MITOCHONDRIAL OUTER MEMBRANE PROTEIN 25 (NPW16) [R.norvegicus], EST, Weakly similar to OM25_RAT MITOCHONDRIAL OUTER MEMBRANE PROTEIN 25 (NPW16) [R.norvegicus], Erbb2 interacting protein, discs, large homolog 4 (Drosophila), expressed sequence Al118201, hypothetical protein FLJ11271, synaptojanin 2 binding protein
142	10076	AA039211			EST, Moderately similar to CYSR RAT
143 144	21791 16314	AA859333 AA859348	k cc.General		CYSTEINE-RICH PROTEIN 1 [R.norvegicus], ESTs, Weakly similar to S12658 cysteine-rich protein [H.sapiens], cysteine and glycine-rich protein 1, cysteine and glycine-rich protein 3 (cardiac LIM protein), cysteine rich protein, cysteine-rich protein 2, cysteine-rich protein 3, thymus LIM protein
145	18862	AA859520	ſ		
146	15059	AA859545	ŗ		
				-	EST, Highly similar to SPERM-COATING GLYCOPROTEIN PRECURSOR (R.norvegicus), ESTs, Weakly similar to JC4131 glioma pathogenesis-related protein [H.sapiens], Human DNA sequence from clone RP5-881L22 on chromosome 20 Contains ESTs, GSSs, STSs and CpG islands. Contains a gene for a novel protein similar to a trypsin inhibitor and four other genes for novel proteins, RIKEN cDNA 1810049K24 gene, RIKEN cDNA 2410114014 gene, RIKEN cDNA 9230112K08 gene, acidic epididymal glycoprotein 1, epididymal glycoprotein, glioma pathogenesis-
147	19894	AA859581	s		related protein

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TABLES		KONO TOGATĘ WY	NOTATIONS		Ally, Docial No. 44921-5088W0 Doc. No. 1788897,1
809, ID : No.**			Model Gode	Homologous Com Namo	Homologovis Gluster Mamo
149	16318	AA859585	h		DnaJ (Hsp40) homolog, subfamily B, member 1, DnaJ (Hsp40) homolog, subfamily B, member 5, DnaJ (Hsp40) homolog, subfamily B, member 6, DnaJ (Hsp40) homolog, subfamily B, member 8, ESTs, Weakly similar to DnaJ-like protein [M.musculus], ESTs, Weakly similar to HS44 MOUSE HEAT SHOCK 40 KDA PROTEIN 4 [R.norvegicus], Homo sapiens cDNA FLJ13992 fis, clone Y79AA1002139, weakly similar to DNAJ PROTEIN HOMOLOG 1, RIKEN cDNA 1700029A20 gene, RIKEN cDNA 2010306G19 gene
	17316	AA859652	General		
151	19067	AA859663	n,q		
	22406	AA859680	n		
	20599	AA859690	x		
154	14261	AA859693	u .		aratanomhydagaan oyidasa
155	14138	AA859700	<u>v</u>		protoporphyrinogen oxidase protoporphyrinogen oxidase
155 157	14139 22374	AA859700 AA859804	1	-	protoporpriyrinogeri oxidaso
158 159	22385 22773	AA859805 AA859885	b,k		ESTs, Weakly similar to PROTEIN- LYSINE 6-OXIDASE PRECURSOR [R.norvegicus], Lysyl oxidase, lysyl oxidase, lysyl oxidase-like, lysyl oxidase-like 1, lysyl oxidase-like 2
160	22816	AA859898	k,x,z		
161	11891	AA859926	X		
162	23070	AA859942	k		EST, Weakly similar to JC1343 glycylpeptide N- tetradecanoyltransferase [H.sapiens], N-myristoyltransferase 1
	23121	AA859948	k		
164	23166	AA859954	cc,General		Homo sapiens cDNA FLJ14666 fis, clone NT2RP2003000, weakly similar to TUMOR NECROSIS FACTOR, ALPHA-INDUCED PROTEIN 1, Homo sapiens polymerase delta-interacting protein 1 mRNA, complete cds, MSTP028 protein, tumor necrosis factor, alpha-induced protein 1
165	18468	AA859966			(endothelial) ESTs, Moderately similar to A Chain A, Inositol Monophosphatase [H.sapiens], inositol (myo)-1(or 4)-monophosphatase 1, RIKEN cDNA 2900059K10 gene, bisphosphate 3'-nucleotidase 1, inositol (myo)-1(or 4)-monophosphatase 1, inositol (myo)-1(or 4)-monophosphatase 2, inositol(myo)-1(or 4)-monophosphatase 1, inositol(myo)-
166	23336	AA859981	g		1(or 4)-monophosphalase 2 EST, Moderately similar to EF1G_HUMAN ELONGATION FACTOR 1-GAMMA [H.sapiens], ESTs, Highly similar to EF1G_HUMAN ELONGATION FACTOR 1-GAMMA [H.sapiens], Homo sapiens cDNA FLJ11216 fis, clone PLACE1008002, eukaryotic translation elongation factor
167	4222	AA860024	a,bb	L	1 gamma

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Seq. (D. , No. :	lderillier	GonEenk Acc./ Ref. Sco. ID No.	Model Gode	Homologous Goro	Monologous Cluster Name
					EST, Moderately similar to 138369 beta tubulin (H.sapiens), EST, Weakly similar to 138369 beta-tubulin (H.sapiens), EST, Weakly similar to TUBULIN BETA-5 CHAIN (M.musculus), ESTs, Highly similar to A25113 tubulin beta chain 15 - rat
					[R.norvegicus], FK506-binding protein 1A (12kD), RIKEN cDNA 2310061K05 gene, RIKEN cDNA 2410129E14
168	13974	AA860030	u,x,General		gene, tubulin, beta 2, tubulin, beta 5, tubulin, beta polypeptide
				hyaluronan mediated motility receptor (RHAMM), hyaluronan-mediated	Mus musculus 12 days embryo male wolffian duct includes surrounding region cDNA, RIKEN full-length enriched library, clone:6720466F14, full insert sequence, RIKEN cDNA 0610027D24 gene, TRAF4 associated factor 1, hyaluronan mediated motility receptor (RHAMM), hyaluronan-
169	7090	AA860039	<u>x</u>	motility receptor (RHAMM)	mediated motility receptor (RHAMM)  DKFZP547E2110 protein, hypothetical
170 171	23769 16323	AA860055 AA866240	k,x w		protein FLJ10604
172	4462	AA866264	General		EST, Weakly similar to PE2R RAT 20-ALPHA-HYDROXYSTEROID DEHYDROGENASE [R.norvegicus], Mus musculus 10 days embryo cDNA, RIKEN full-length enriched library, clone:2610528B18, full insert sequence, RIKEN cDNA 9430025F20 gene, Rattus norvegicus mRNA for 20-alpha-hydroxysteroid dehydrogenase (20-alpha-HSD), complete cds, aldoketo reductase family 1, member C1, aldoketo reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I, dihydrodiol dehydrogenase 4), expressed sequence Al503553, hydroxysteroid (17-beta) dehydrogenase 5
173	15884	AA866276	k		ESTs, Highly similar to A54602 microtubule-associated serine/threonine protein kinase MAST205 - mouse [M.musculus], ESTs, Moderately similar to A54602 microtubule-associated serine/threonine protein kinase MAST205 - mouse [M.musculus], Homo sapiens cDNA: FLJ21699 fis, clone COL09829, KIAA0303 protein, KIAA0807 protein, Mus musculus adult male cacum cDNA, RIKEN full-length enriched library, clone:9130026D18, full insert sequence, microtubule associated testis specific serine/threonine protein kinase, syntrophin associated serine/threonine kinase

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509. (D). No	rellinete	ConBank Ace./ Ref. Seq. ID No.	Modal ලංක	Homologous Cono Name	Ronologous Avster Name 🔆
174	17742	AA866302	c,y	4-hydroxyphenylpyruvate dioxygenase, 4- hydroxyphenylpyruvic acid dioxygenase	4-hydroxyphenylpyruvate dioxygenase, 4-hydroxyphenylpyruvic acld dioxygenase, ESTs, Weakly similar to HPPD MOUSE 4-HYDROXYPHENYLPYRUVATE DIOXYGENASE [M.musculus], ESTs, Weakly similar to S32820 alloantigen F-rat [R.norvegicus], hypothetical protein MGC15668
175	16333	AA866414	a,h	solute carrier family 4 (anion exchanger), member 1, solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)	ESTs, Highly similar to BAND 3 ANION EXCHANGE PROTEIN [M.musculus], ESTs, Weakly similar to B3HU band 3 anion transport protein, erythrocyte [H.sapiens], solute carrier family 4 (anion exchanger), member 1, solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)
176	18918	AA866444	p.q		
177	16853	AA866454	j,l,m,y,z	ļ	
179 180	16013 26036	AA866482 AA874849	s.		ESTs, Highly similar to FGD1_HUMAN PUTATIVE RHO/RAC GUANINE NUCLEOTIDE EXCHANGE FACTOR [H.sapiens], ESTs, Weakly similar to FGD1 MOUSE PUTATIVE RHO/RAC GUANINE NUCLEOTIDE EXCHANGE FACTOR [M.musculus], ESTs, Weakly similar to FGD1_HUMAN PUTATIVE RHO/RAC GUANINE NUCLEOTIDE EXCHANGE FACTOR [H.sapiens], FGD1 family, member 3, RIKEN cDNA 5830461L01 gene, faciogenital dysplasia (Aarskog-Scott syndrome), faciogenital dysplasia homolog, faciogenital dysplasia homolog 2 (human)
181	16059	AA874857	h		
182	16069	AA874873	r		
183	21633	AA874951	f		ESTs, Weakly similar to RNA binding protein [H.sapiens]
184	16192	AA874995	w		
185	16254	AA875025	İ	·	cellular retinoic acid-binding protein 1
186	16312	AA875032	cc.General		11
187	20701	AA875097	b	fibrinogen, A alpha polypeptide	Homo sapiens clone HQ0582, expressed sequence Al303526, fibrinogen, A alpha polypeptide, fibrinogen, gamma polypeptide ADP-ribosylation factor 3, RIKEN cDNA 5430400P17 gene, Rattus norvegicus ADP-ribosylation factor 3
100	16416	A A 975000	hh		mRNA, complete cds, expressed
188 189	16416 16419 15313	AA875098 AA875102 AA875126	bb bb l.m.General		sequence AA408731 expressed sequence AL022645, expressed sequence C76690, small nuclear ribonucleoprotein E, small nuclear ribonucleoprotein polypeptide E
191	10936	AA875146	W		<del> </del>
192	18084	AA875186	h		
193	15371	AA875205	U		ESTs, Weakly similar to IF39_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 9 [H.sapiens]

TABLES	e HUMAN	<u> HOXOTOGAS VX</u>		The second of th	#Aliy: Docket No. 44921-5989XX Doc. No. 1793997.
50G, [D	le li line le li	Contents Acc.	1 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Komologous Ceno	
194	15401	AA875257	x,z		
					NADH dehydrogenase (ubiquinone) Fe S protein 7 (20kD) (NADH-coenzyme
195	15410	AA875268	p.s		Q reductase)
196	15420	AA875286	7		
197	15446 7936	AA875327 AA875495	b,General		
198	7930	ANO/3493	D,General		EST, Moderately similar to A Chain A, Mdm2 Bound To The Transactivation Domain Of P53 (SUB 17-125 [H.sapiens], mouse double minute 2, human homolog of; p53-binding
199	17314	AA875509	i,I,m		protein
200	24472	AA875523	k		EST, Weakly similar to MOHU6N myosin alkali light chain 6, nonmuscle form [H.sapiens], myosin light chain, alkali, nonmuscle, myosin, light polypeptide 6, alkali, smooth muscle and non-muscle
201	15587	AA875577	i -		and non-muscle
202	15617	AA875620	General		
202	15618	AA875620	General		
					Jun-B oncogene, jun B proto-
203	5384 24814	AA891041 AA891209	f,cc,General f,p		oncogene
205	21930	AA891322	d .		nucleolin - rat [R.norvegicus], EST, Weakly similar to NUCL_HUMAN NUCLEOLIN [H.sapiens], ESTs, Highly similar to FUS_HUMAN RNA-BINDING PROTEIN FUS [H.sapiens], ESTs, Weakly similar to T17210 hypothetical protein DKFZp434N041.1 [H.sapiens], RIKEN cDNA 2700022N21 gene, fusion, derived from t(12;16) malignant liposarcoma, poly(A) binding protein, nuclear 1, small nuclear ribonucleoprotein 70kD polypeptide (RNP antigen) EST, Weakly similar to IF37 MOUSE EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 7
206	. 17225	AA891553	h		[M.musculus], eukaryotic translation initiation factor 3, subunit 7 (zeta, 66/67 kDa), eukaryotic translation initiation factor 3, subunit 7 (zeta, 66/67kD)
207	7522	AA891571	,m		
208	9071	AA891578	b		Homo sapiens, Similar to neurofilament, heavy polypeptide (200kD), clone MGC:20701 IMAGE:4634024, mRNA, complete
209	19321	AA891666	U	melanoma antigen, family D, 1	cds, MAGE-E1 protein, MAGEF1 protein, Neurofilament, heavy polypeptide, RIKEN cDNA 2010107K23 gene, RIKEN cDNA 3830417A13 gene, general transcription factor IIH, polypeptide 1 (62kD subunit), melanoma antigen, family D, 1, melanoma antigen, family D, 2, necdin, neurofilament, heavy polypeptide, neurofilament, heavy polypeptide (200kD)
210	17693	AA891737	j,l,m,n,y,z		
211	17256	AA891739	General		-
	1	<u> </u>	1	<u> </u>	

VABLE 8	e HUMAN	<u>Howofogns</u> W			My Doctot No. 44921-5033W Doc. No. 1793397.1
Scq. (P. No. 1411	COMMON	Cendent Acel Rel Seg ID No.	Model Gode 2	Homologous Gana Mamor	Londologovis Civistor Namo
					ESTs, Highly similar to S03917 fibronectin ED-A [H.sapiens], ESTs, Moderately similar to Fourth And Fifth Fibronectin Type I Module Pair (SUB 183-275 [H.sapiens], Fibronectin 1,
213	18269 9905	AA891769 AA891774	General s.bb.General		fibronectin 1
215	17061	AA891812	d		
		20031012			ESTs, Highly similar to 2013348A Ser kinase SRPK1 [H.sapiens], Mus musculus 13 days embryo head cDNA, RIKEN full-length enriched library, clone:3110005M20, full insert sequence, Mus musculus adult male lung cDNA, RIKEN full-length enriched library, clone:1200011B22, full insert sequence, SFRS protein kinase 1, SFRS protein kinase 2, serine/arginine-th protein croelife kinase 2.
216	7050	AA891824	h		rich protein specific kinase 2, serine/threonine kinase 23
217	4463	AA891831	General		Schickhedinian kinias 25  EST, Weakly similar to PE2R RAT 20- ALPHA-HYDROXYSTEROID DEHYDROGENASE [R.norvegicus], Mus musculus 10 days embryo cDNA, RIKEN full-length enriched library, clone:2610528B18, full insert sequence, RIKEN cDNA 9430025F20 gene, Rattus norvegicus mRNA for 20- alpha-hydroxysteroid dehydrogenase (20-alpha-HSD), complete cds, aldo- keto reductase family 1, member C1, aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4), expressed sequence Al315367; expressed sequence Al503553, hydroxysteroid (17-beta) dehydrogenase 5
218 219	14289 20523	AA891838 AA891842	1 00		
	17779	AA891914	r,cc		EST, Weakly similar to ACY1_HUMAN AMINOACYLASE-1 [H.sapiens],
220 221	17438	AA891943	g,s,z General		aminoacylase 1
222	22862	AA891944	p		
223	1159	AA891949	e,z		······································
224	4473	AA891965	General		
225	6362	AA892053	f,j,l,m		
226	9037	AA892066	y		EST, Weakly similar to PROD_HUMAN PROLINE OXIDASE, MITOCHONDRIAL PRECURSOR [H.sapiens], Homo sapiens mRNA for KIAA1653 protein, partial cds, proline dehydrogenase, proline dehydrogenase (proline oxidase), proline oxidase 1, proline oxidase
227	19469	AA892112	General		homolog
228	14595	AA892128	o,t,v		
229	16527	AA892154	СС		
230	4482	AA892173	bb		
231	20917	AA892238	h		Met proto-oncogene, RYK receptor-like tyrosine kinase, macrophage stimulating 1 receptor (c-met-related
232	2357	AA892268	d		tyrosine kinase), met proto-oncogene

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233	18183	AA892271	h		
234	6523	AA892299	d		
236	13647	AA892367	а		EST, Weakly similar to 60S RIBOSOMAL PROTEIN L3 [R.norvegicus], EST, Weakly similar to 184501 ribosomal protein L3 [H.sapiens], ESTs, Moderately similar to 60S RIBOSOMAL PROTEIN L3 [R.norvegicus], ESTs, Moderately similar to 184501 ribosomal protein L3 [H.sapiens], ESTs, Weakly similar to RL3 MOUSE 60S RIBOSOMAL PROTEIN L3 [M.musculus], RIKEN cDNA 1110057H16 gene, ribosomal protein L3, ribosomal protein L3-like
237	3473	AA892378	v		
238	17682	AA892382	j,p,s,x,General		ESTs, Weakly similar to T44342 hypothetical protein TSC501 [H.sapiens], kidney- and liver-specific gene, putative N-acetyltransferase Camello 2
				aldolase 2, B isoform,	
				aldolase B, fructose-	
239	820	AA892395	g,s	bisphosphate	
240	14754 17439	AA892414	u .		
241	17439	AA892446	1		ubiquinol-cytochrome c reductase
242	16469	AA892462	D		(6.4kD) subunit
243	13609	AA892468	i,General		[M.musculus], ESTs, Weakly similar to MCT7 RAT MAST CELL PROTEASE PRECURSOR [R.norvegicus], RIKEN cDNA 2410039E18 gene, RIKEN cDNA 4933401F05 gene, marapsin, mast cell protease 7, protease, serine 21 (testisin), protease, serine, 22, protease, serine, 8 (prostasin), tryptase delta 1, tryptase, alpha
243	13610	AA892468	n,v,General		EST, Weakly similar to MAST CELL PROTEASE 7 PRECURSOR [M.musculus], ESTs, Weakly similar to MCT7 RAT MAST CELL PROTEASE PRECURSOR [R.norvegicus], RIKEN cDNA 2410039E18 gene, RIKEN cDNA 4933401F05 gene, marapsin, mast cell protease 7, protease, serine 21 (testisin), protease, serine, 22, protease, serine, 8 (prostasin), tryptase delta 1, tryptase, alpha
					EST, Weakly similar to histone H2A.F/Z variant [H.sapiens], H2A histone family, member Z, RIKEN cDNA C530002L11 gene, histone
244	9254	AA892470	n,u		H2A.F/Z variant
245	11991	AA892483	S		EST, Weakly similar to A32609 alpha glucosidase [H.sapiens], ESTs, Weakly similar to LYAG MOUSE LYSOSOMAL ALPHA-GLUCOSIDAS PRECURSOR [M.musculus], alpha glucosidase 2, alpha neutral subunit,
246	1522	AA892486	ſ		glucosidase, alpha, acid ESTs, Highly similar to DS1_HUMAN DS-1 PROTEI [H.sapiens], immature
247	11994	AA892507	aa		colon carcinoma transcript 1
248	23888	AA892520	w	<del>                                     </del>	

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248	23889	AA892520	h		· ·
249	8599	AA892522	р		
250	15154	AA892532	р		expressed sequence Al987846, expressed sequence AL023058, expressed sequence C77895, hypothetical protein MGC3178, prote disulfide isomerase-related protein, quiescin Q6
251	17468	AA892545	r		<u> </u>
252	11203	AA892554	f,h		
253	18906	AA892561	a,bb,General		
254	19327	AA892562	f.j.y.z		ESTs, Moderately similar to DKC1 RAT DYSKERIN [R.norvegicus], EST Weakly similar to DKC1_HUMAN DYSKERIN [H.sapiens], RIKEN CDN, 9030425C13 gene, dyskeratosis congenita 1, dyskerin, hypothetical protein, MGC:7014, nuclear factor of kappa light polypeptide gene enhanc in B-cells inhibitor-like 1
255	18274	AA892572	P		
256	4512	AA892578	CC	l	
257	15876	AA892582			RIBOSOMAL PROTEIN L8 [R.norvegicus], EST, Moderately similar to 60S RIBOSOMAL PROTEIL L8 [R.norvegicus], EST, Weakly simil to JN0923 ribosomal protein L8, cytosolic [H.sapiens], ESTs, Highly similar to 60S RIBOSOMAL PROTEIL L8 [R.norvegicus], ESTs, Highly simil to RL8_HUMAN 60S RIBOSOMAL PROTEIN L [M.musculus], ESTs, Moderately similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L [M.musculus], eSTs, Moderately similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L [M.musculus], expressed sequence AL024098, ribosomal protein L8
258	19085	AA892598	General	<del>                                     </del>	
258	19086	AA892598	General		
		, - 105-000			EST, Highly similar to HISTONE H4 [R.norvegicus], ESTs, Highly similar to HISTONE H4 [R.norvegicus], H4 histone family, member D, H4 histone family, member H, H4 histone family, member H, H4 histone family, member H, H4 histone family, member K, Mus musculus 10 day old male pancreas cDNA, RIKEN full-length enriched library, clone:1810029H14, full insert sequence, Mus musculus 1 days embryo cDNA, RIKEN full-length enriched library, clone:2610027B07, full insert sequence, Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930558J22, full insert sequence, Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310067E17,
	l	LA A CODC 47	lı .	I	full insert sequence, histone 4 protein
259	20065	AA892647	11		Hitti ilisait sequence, mstone 4 protei
259 260	20065	AA892666	a,n	<del> </del>	itali insert sequence, msione 4 protein

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Seg. ID No.	reillach	GenBenk Ace. Ref. Seq. (D No.	Model Gode.	Monologous Cene Mano	Greek refer Severolonek
262	17549	AA892776	f,z		Mus musculus, Similar to solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3, clone MGC:7631, mRNA, complete cds, expressed sequence W51672, solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3
263	13542	AA892798	Ь		
					3-phosphoglycerate dehydrogenase, EST, Weakly similar to SERA RAT D-3 PHOSPHOGLYCERATE DEHYDROGENASE [R.norvegicus], ESTs, Moderately similar to SERA_HUMAN D-3-PHOSPHOGLYCERATE DEHYDROGENASE [H.sapiens], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930404C15, full insert sequence, RIKEN cDNA 6430629L09 gene, RIKEN cDNA 6430629L09 gene, glyoxylate reductase/hydroxypyruvate
264			General		reductase, phosphoglycerate dehydrogenase
	22537	AA892799	Guidia		3-phosphoglycerate dehydrogenase, EST, Weakly similar to SERA RAT D-3 PHOSPHOGLYCERATE DEHYDROGENASE [R.norvegicus], ESTs, Moderately similar to SERA_HUMAN D-3-PHOSPHOGLYCERATE DEHYDROGENASE [H.sapiens], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930404C15, full insert sequence, RIKEN cDNA 1110059D05 gene, RIKEN cDNA 6430629L09 gene, glyoxylate reductase/hydroxypyruvate reductase, phosphoglycerate
264	22539	AA892799	v		dehydrogenase
					3-phosphoglycerate dehydrogenase, EST, Weakly similar to SERA RAT D-3 PHOSPHOGLYCERATE DEHYDROGENASE [R.norvegicus], ESTs, Moderately similar to SERA_HUMAN D-3-PHOSPHOGLYCERATE DEHYDROGENASE [H.sapiens], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930404C15, full insert sequence, RIKEN cDNA 1110059D05 gene, RIKEN cDNA 6430629L09 gene, glyoxylate reductase/hydroxypyruvate reductase, phosphoglycerate
264	22538	AA892799	General	<u> </u>	dehydrogenase
265	6951	AA892820	<u> h</u>	<u> </u>	L

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Seg. (D	្រុំ	Meastern's Assell	Modal Code		# 16 To 1
256	23322	AA892821	j,z		ESTs, Highly similar to AR72_HUMAN AFLATOXIN B1 ALDEHYDE REDUCTASE 1 (AFB1-AR 1) (ALDOKETOREDUCTASE 7) [H.sapiens], ESTs, Moderately similar to AFAR RAT AFLATOXIN B1 ALDEHYDE REDUCTASE [R.norvegicus], RIKEN cDNA 0610025K21 gene, aflatoxin B1 aldehyde reductase, aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase), aldo-keto reductase family 7, member A3 (aflatoxin aldehyde reductase), aldo-keto reductase family 7, member A3 (aflatoxin aldehyde reductase)
267	17923	AA892843	lf		
268	22871	AA892859	m		RIKEN cDNA 2410042F05 gene, procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase) 2, procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI), procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1
269	9053	AA892861	p,v,General		
270	16482	AA892940	w		EST, Weakly similar to EFHU2 translation elongation factor eEF-2 [H.sapiens], ESTs, Highly similar to ELONGATION FACTOR 2 [R.norvegicus], U5 snRNP-specific protein, 116 kD, eukaryotic translation elongation factor 2, expressed sequence Al451340, hypothetical protein FLJ21661
271	12020	AA893035	j,y		•
272	3863	AA893060	General		
273	13332	AA893080	i,General		
274	21305	AA893082	General		
275	16591	AA893191	j,z		
276	17447	AA893192	General		
277	3876	AA893205	n	I	
					Calmodulin 1 (phosphorylase kinase, delta), Calmodulin III, ESTs, Highly similar to A Chain A, Calmodulin Complexed With Calmodulin-Binding Peptide From Smooth Muscle Myosin Light Chain Kinase (SUB 2-148 [H.sapiens], RIKEN cDNA 2310068022 gene, calmodulin, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2 (phosphorylase kinase, delta),
278	3878	AA893230	General	l	calmodulin 3, calmodulin-like 3

TABLES	e Chuman	HOMOLOGUEA	INOTATIONS -		: #Atty, Docket No. 44921-5189W0
					Dog. No. 1793997.
900.ID 1	ldentifier	Geneenk Ace./ Rof. Seq. ID No.	Model Codo	Homologove Cene Heme	Homelogove Cluster Name
-				fatty acid Coenzyme A ligase, long chain 2, fatty-acid-Coenzyme A ligase,	ESTs, Weakly similar to LCFB MOUSE LONG-CHAIN-FATTY-ACID—COA LIGASE 2 [M.musculus], Mus musculus, Similar to fatty-acid-Coenzyme A ligase, long-chain 6, clone MGC:28744 IMAGE:4481949, mRNA, complete cds, Rattus norvegicus gonadotropin-regulated long chain acyl-CoA synthetase (GR-LACS) mRNA, complete cds, fatty acid Coenzyme A ligase, long chain 2, fatty-acid-Coenzyme A ligase, long-chain 1, fatty-acid-Coenzyme A ligase, long-chain 1, fatty-acid-Coenzyme A ligase,
279	20986	AA893242	. ·	long-chain 2	long-chain 2, lipidosin
280	16168	AA893280	i.z.General		RIKEN cDNA 1300012C15 gene, RIKEN cDNA 2310076L09 gene, adipose differentiation related protein, adipose differentiation-related protein
281	3886	AA893289	j,m,y	- "	
282	15209	AA893327	v		
283	17800	AA893436	cc		
284 285	17836 9084	AA893626 AA893717	h x		Guanine nucleotide-binding protein beta 1, Homo sapiens mRNA for FLJ00083 protein, partial cds, Mus musculus, clone MGC:7934 IMAGE:3583848, mRNA, complete cds, RIKEN cDNA 5930415H02 gene, WD repeat domain 5, guanine nucleotide binding protein (G protein), beta polypeptide 1, guanine nucleotide binding protein, beta 1, guanine nucleotide binding protein, beta 1, guanine nucleotide binding protein, beta 4, hypothetical protein, recombination protein REC14
286	22731	AA893743	d		
287	12031	AA893860	v		ESTs, Highty similar to YSHUT threoninetRNA ligase [H.sapiens], ESTs, Moderately similar to YSHUT threoninetRNA ligase [H.sapiens], hypothetical protein FLJ12528, threonyl-tRNA synthetase
288	17897	AA893905	k		
289	3447	AA893982	d		
290	22583	AA894009	n		
291	10540	AA894027	j		
292	4569	AA894059	x		

293 1841 294 1733 295 1912 296 1976 298 2205 298 2205 299 2462 300 4262	HUMAN	HOMOLOGUEAK	KOTATIONS'	THE PROPERTY OF THE PARTY OF TH	Auy Dockel No 4 921 strewo Doc No. 1793: 197. (
294 1733 295 1912 296 1976 296 297 1828 298 2205 298 2205 299 2162 300 4262 301 4661	ldenilier	CenBent Acel Rel See D No:	Model Gode in	Honologous Coro	Klomologovis Glüsler (Name
294 1733 295 1912 296 1976 296 297 1828 298 2205 298 2205 299 2162 300 4262 301 4661	·				Amyloid protein precursor-like protein 2, EST, Weakly similar to AMYLOID-LIKE PROTEIN 2 PRECURSOR [R.norvegicus], Human DNA sequence from clone RP3-461P17 on chromosome 20q12-13.2. Contains two novel genes, gene HE4 for Major Epididymis-specific protein E4 precursor (Epididymis Secretory protein E4), RPL5 (60S Ribosomal Protein L5), COX6C (Cytochrome C Oxidase subunit VIC) and HSPD1 (HSP60, Mitochondrial Matrix Protein P1 precursor, Heat Shock Protein 60, GROEL, HUCHA60) pseudogenes, the SPINT3 gene for Kunitz type serine protease inhibitor 3 (HKIB9), two genes for novel Kunitz/Bovine pancreatic trypsin inhibitor and WAP-type (Whey Acidic Protein) Yourdisulfide core' domains containing proteins and the gene for Eppin-1, -2 and -3. Contains ESTs, STSs, GSSs and a CpG island, RIKEN cDNA 1700024E17 gene, amyloid beta (A4) precursor-like protein 2, serine protease inhibitor, Kunitz type 2, tissue factor pathway inhibitor, tissue factor
294 1733 295 1912 296 1976 296 297 1828 298 2205 298 2205 299 2162 300 4262 301 4661	18419	AA894130	d		pathway inhibitor 2
297 1828 298 2205 298 2205 299 2162 300 4262 301 4661	17336	AA894297	j		
297 1828 298 2205 298 2205 299 2162 300 4262 301 4661	19120	AA894318	f.j		
299 2162 300 4262 301 4661	18286 22051	AA899113  AA899219  AA899498	U W	×	EST, Weakly similar to S45140 tubulin beta chain [H.sapiens], ESTs, Highly similar to T08726 tubulin beta chain [H.sapiens], ESTs, Highly similar to TBB1 RAT TUBULIN BETA CHAIN [R.norvegicus], ESTs, Moderately similar to 138370 beta-tubulin [H.sapiens], ESTs, Moderately similar to TBB1 RAT TUBULIN BETA CHAIN [R.norvegicus], RIKEN cDNA 2410129E14 gene, RIKEN cDNA 4930447K03 gene, RIKEN cDNA 4930542G03 gene, tubulin, beta 3, tubulin, beta polypeptide
300 4262 301 4661	22052	AA899498	9	·	
301 4661	21628	AA899563	aa		
2130	4661 21354	AA899590 AA899709 AA899721	t,General	receptor (calcitonin) activity modifying protein 3	receptor (calcitonin) activity modifying protein 3
303 1790	17905	AA899762	General		EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epidermal growth factor receptor, formerly avian erythroblastic leukemia viral (v-erbB) oncogene homolog (Erbb1), avian erythroblastosis oncogene B 3, epidermal growth factor receptor, epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog)

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300, ID . No. + 40	le le militier	Corbank Ace <i>l</i> Rol Seq. ID No.	Model (Code	Homologova Cano.	(foniologous Giveter Name
					ESTs, Moderately similar to A40493
					DNA topoisomerase [H.sapiens],
		İ	. \		ESTs, Moderately similar to TP2A
				8-	MOUSE DNA TOPOISOMERASE II,
	1	·			ALPHA [M.musculus], topoisomerase
			Į	topoisomerase (DNA) II	(DNA) II alpha, topoisomerase (DNA)
				alpha, topoisomerase	beta, topoisomerase (DNA) II beta
305	23778	AA899854	c,k,x	(DNA) II alpha (170kD)	(180kD)
306	22060	AA899898	b		
307	9114	AA899951	v,General	<u> </u>	
308	8988	AA900148	f		
			1		ESTs, Highly similar to IEFS_HUMAN
	)				TRANSFORMATION-SENSITIVE
					PROTEIN IEF SSP 3521 [H.sapiens]
309	11841	AA900247	<u>v</u>		hypothetical protein FLJ12788
					Alpha-2-macroglobulin, ESTs,
					Moderately similar to A2M2 MOUSE
					MURINOGLOBULIN 2 PRECURSOR
				· .	[M.musculus], RIKEN cDNA
		•			2610307l21 gene, alpha-2-
					macroglobulin, carbon catabolite
					repression 4 homolog (S. cerevisiae)
	1				expressed sequence AW456442,
310	4725	AA900290	cc		pregnancy-zone protein
311	4747	AA900465	General		
312	20988	AA900562	0		
					DNA segment, Chr 17, human
	ľ	ļ		i	D6S81E 1, ESTs, Highly similar to
	J			i .	S33681 translation initiation factor ell
	l	l			4A.I [H.sapiens], HLA-B associated
	İ				transcript 1, Human clone 23933
	ļ				mRNA sequence, eukaryotic
	ŀ				translation initiation factor 4A, isoforn
	1				1, mitochondrial DEAD-box
			•		polypeptide 28, nuclear RNA helicase
313	3822	AA900863	b,g,General	•	DECD variant of DEAD box family
		1			Mus musculus, Similar to aspartyl-
					tRNA synthetase, clone MGC:6719
•			l .		IMAGE:3586278, mRNA, complete
					cds, asparaginyi-tRNA synthetase,
	İ			ł	aspartyl-tRNA synthetase, hypothetic
					protein FLJ10514, hypothetical prote
315	12420	AA901017	ь		FLJ23441
316	4849	AA901155	s		
317	3959	AA901338	General		
					succinate-CoA ligase, ADP-forming,
318	22846	AA923982	a,d		beta subunit
319	4895	AA923999	k		<u> </u>
320	21546	AA924188	cc,General		
321	24192	AA924210	n,General		
322	4933	AA924301	g,l,General		
					ESTs, Weakly similar to
	l		1		NEUROFILAMENT TRIPLET H
	l .		1	1	PROTEIN [M.musculus], RIKEN cDN
			1		0610009L18 gene, RIKEN cDNA
	1				1300003A17 gene, RIKEN cDNA
					2410142G14 gene, nucleolar protein
323	4944	AA924405	I,General		(KKE/D repeat)
324	4948	AA924428	r		

	HUMAN	<u>Konorogas av</u>	INOVANIONS:			My, Docket No. 44921-5039WC
		ConBook Ace./: Ref. Seq. ID No.		Kemelegev Kemelegev	e@mp: %	Honologous Glusler Namo
						ESTs, Weakly similar to NPT2_HUMAN RENAL SODIUM- DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 [H.sapiens], Homo sapiens, Similar to solute carrier family 34 (sodium phosphate), member 1, clone MGC:18179 IMAGE:4155326, mRNA, complete cds, Rattus norvegicus mRNA for NaPi-2 alpha, complete cds, Solute carrier family 17 (sodium/hydrogen exchanger), member 2, expressed sequence
325	4949	AA924432	General			Al649385, solute carrier family 34 (sodium phosphate), member 1, solute carrier family 34 (sodium phosphate), member 2
						member 2
326	18891	AA924598	e			3-phosphoglycerate dehydrogenase, EST, Weakly similar to SERA RAT D-3-PHOSPHOGLYCERATE DEHYDROGENASE [R.norvegicus], ESTs, Moderately similar to SERA_HUMAN D-3-PHOSPHOGLYCERATE DEHYDROGENASE [H.sapiens], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930404C15, full insert sequence, RIKEN cDNA 1110059D05 gene, RIKEN cDNA 6430629L09 gene, glyoxylate reductase/hydroxypyruvate reductase, phosphoglycerate
327	22540	AA924630	v,General	<u></u>		dehydrogenase 3-phosphoglycerate dehydrogenase,
	22544	AA004620	General			EST, Weakly similar to SERA RAT D-3- PHOSPHOGLYCERATE DEHYDROGENASE [R.norvegicus], ESTs, Moderately similar to SERA_HUMAN D-3- PHOSPHOGLYCERATE DEHYDROGENASE [H.sapiens], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930404C15, full insert sequence, RIKEN cDNA 1110059D05 gene, RIKEN cDNA 6430629L09 gene, glyoxylate reductase/hydroxypyruvate reductase, phosphoglycerate
327	22541	AA924630 AA924766				dehydrogenase
328	14759 23123	AA924794	k x	<del> </del>		
330	4067	AA924813	g.p	<del> </del>		
331	2888	AA924902	r,General	<del> </del>		
332	18130	AA924902 AA924964	d	<del> </del>		
333	23141	AA925019	r			
555						ESTs, Weakly similar to A35863 tryptase [H.sapiens], ESTs, Weakly similar to MCT7 RAT MAST CELL PROTEASE 7 PRECURSOR [R.norvegicus], RIKEN cDNA 4733401N09 gene, mast cell protease 7, tryptase delta 1, tryptase gamma 1, tryptase, alpha
334	23195	AA925026	General	1		ju ypiase, aipiia
334 335			f,aa,General			пуртазе, агрпа
	23195 21458 5073	AA925049 AA925061				llypiase, aipha

	TARIFE	S THINNANI	/A ചുമരു (രൂൻ	2หดุภาคาก		.: Atty: Docket No. 44921-5089Wo
		A DICTOR				Doc. No. 1798397.1
Homo sepiens, clone IMAGE:3394	Sog. ID No.# al	ldinilier:	Coreni: Acel Ref. Seg. (D No.	Model Code	Henologous Conellina Name	
338   5989						Homo sapiens, clone IMAGE:3940519,
RIKEN full-langth enriched bitsory, clone-4930572NLP, full insert sequence, betaine-homocysteine methytransferase 2   RicAdd-38 gene probabilities methytransferase 2   RicAdd-38 gene probabilities methytransferase 2   RicAdd-38 gene protein associated prot 1, complete cds, expressed sequence, betaine-homocysteine methytransferase 2   RicAdd-38 gene protein associated prot 1, complete cds, expressed sequence, betaine-homocysteine methytransferase 2   RicAdd-38 gene protein full full full full full full full ful	338	5089	AA925126	l <sub>g</sub>		
1339   23261   AA925145   K.General   homocysteline methyltransferase 2   KIAAQ438 gene protein, management of the complete and the complete						clone:4930572N12, full insert
Incorregious mRNA for neurodegeneration associated prot 1, complete cds, expressed squer AL022700, g1-related zinc finger protein, hypothetical protein, hypothetical protein FLH 1830 smi to Praja1, hypothetical protein FLH 1830 smi to Praja1, hypothetical protein, hypothetical protein, hypothetical protein, full 1830 smi to (U06944) PRAJA1, praja1	339	23261	AA925145	k,General		methyltransferase, betaine- homocysteine methyltransferase 2
341   23448   AA925167   I						norvegicus mRNA for neurodegeneration associated protein 1, complete cds, expressed sequence AL022700, g1-related zinc finger
23448	340	17363	AA925150	a		to Praja1, hypothetical protein, similar to (U06944) PRAJA1, praja1
THYROID RECEPTOR INTERACT PROTEIN 9 [H.sapiens], ESTs, Hig simillar to A44437 regenerating live inhibitory factor RUIF-1 - rat [R.noregicus], ESTs, Weakly simil to I-kappa B alpha chain [M.muscu nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, beta, nuclear factor of kappa light polypeptide gene enhancer in cells inhibitor, alpha, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilo and of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilo and of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilo and of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilo and of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilo and of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilo and of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilo and of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilo and of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and enhancer in B-cells inhibitor, epsilo and en						
344 22479 AA925539 b  345 21151 AA925539 b  EST, Moderately similar to 1604356 nuclear RNP protein L [H.sapiens], ESTs, Highly similar to 1604356 nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 1604356 nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 1604356 nuclear RNP protein L [H.sapiens], heterogeneous nuclear ribonucleoprotein L  EST, Moderately similar to 1604356 nuclear RNP protein L [H.sapiens], ESTs, Highly similar to 1604356 nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 1604356 nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 1604356 nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 1604356 nuclear RNP protein L [H.sapiens], heterogeneous nuclear ribonucleoprotein L  346 16945 AA925541 t ribonucleoprotein L ESTs, Moderately similar to JX033 succinate dehydrogenase [H.sapie succinate dehydrogenase [H.sapie succinate dehydrogenase complex subunit A, flavoprotein (Fp)						[R.norvegicus], ESTs, Weakly similar to I-kappa B alpha chain [M.musculus], nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, beta, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta, nuclear factor
345 21151 AA925539 b  EST, Moderately similar to 160435 nuclear RNP protein L [H.sapiens], ESTs, Highly similar to 1604358A nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 16043 nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear ribonucleoprotein L  EST, Moderately similar to 1604358A nuclear RNP protein L [H.sapiens], ESTs, Highly similar to 1604358A nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 1604358A nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 1604358A nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear ribonucleoprotein L  EST, Moderately similar to 1604358A nuclear RNP protein L [H.sapiens], heterogeneous nuclear ribonucleoprotein L  ESTs, Moderately similar to 1504358A nuclear RNP protein L [H.sapiens], heterogeneous nuclear ribonucleoprotein L  ESTs, Moderately similar to 1504358A nuclear RNP protein L [H.sapiens], heterogeneous nuclear ribonucleoprotein L  ESTs, Moderately similar to 1504358A nuclear RNP protein L [H.sapiens], heterogeneous nuclear ribonucleoprotein L  ESTs, Moderately similar to 1604358A nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L [H.sapiens], heterogeneous nuclear RNP protein L				k		
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EST, Moderately similar to 160435 nuclear RNP protein L [H.sapiens], ESTs, Highly similar to 1604358A nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 160435 nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 16043 nuclear RNP protein L [H.sapiens], heterogeneous nuclear intonucleoprotein L ESTs, Moderately similar to 18043 nuclear RNP protein L [H.sapiens], heterogeneous nuclear intonucleoprotein L ESTs, Moderately similar to 18043 succinate dehydrogeneous nuclear succinate dehydrogenase [H.sapiens] succinate dehydrogenase complex subunit A, flavoprotein (Fp)				f		nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 1604358A nuclear RNP protein L [H.sapiens], heterogeneous nuclear
nuclear RNP protein L [H.sapiens], ESTs, Highly similar to 1604358A nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 16043 nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 16043 nuclear RNP protein L [H.sapiens], heterogeneous nuclear ribonucleoprotein L  ESTs, Moderately similar to JX033 succinate dehydrogenase [H.sapiens], succinate dehydrogenase complex subunit A, flavoprotein (Fp)	346	10944	MM323341	,	Involucieoprotein L	EST, Moderately similar to 1604358A
succinate dehydrogenase [H.saple succinate dehydrogenase complex subunit A, flavoprotein (Fp)	346	16945	AA925541	t		nuclear RNP protein L [H.sapiens], ESTs, Highly similar to 1604358A nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 1604358A nuclear RNP protein L [H.sapiens], heterogeneous nuclear ribonucleoprotein L
	247	17514	A A 925554	hh		succinate dehydrogenase [H.sapiens], succinate dehydrogenase complex,
10.0 10.00 110.000000 110.001000 1						Subunit A, navoprotein (Pp)
349 23189 AA925844 r				le	<del> </del>	

TABLE	B. CHAWAN	HOMOFOGAE W	CKINOTATIOKS	Adams of the second	(Any) Docket No. 4492A-6089000 (A)
Seg. [D No. : . ::	lderiller	ConBank Aced Ref. Sec. ID No.	Model Gode	Hamologous Care Name	Homologova Civator Namo
350	23190	AA925863	aa		EST, Weakly similar to IMB3_HUMAN IMPORTIN BETA-3 SUBUNIT [H.sapiens], Homo sapiens cDNA FLJ12978 fis, clone NT2RP2006321, RAN binding protein 6, karyopherin (importin) beta 3
351	5252	AA926051	General	-	
352	22967	AA926080	h,cc		
353	17157	AA926129	b		
354	13411	AA926196	u,General		
355	5295	AA926247	General		potassium channel, subfamily K, member 1 (TWIK-1), potassium channel, subfamily K, member 3 (TASK-1), potassium channel, subfamily K, member 6 (TWIK-2), potassium channel, subfamily K, member 7
					DNA segment, human D4S114, P311
356	22928	AA926262	General		protein
357	8948	AA926316	r		
358	21798	AA926365	aa		CGI-69 protein, EST, Moderately similar to T43493 hypothetical protein DKFZp434C119.1 [H.sapiens], mitochondrial carrier family protein, mitochondrial solute carrier
359	9942	AA942697	\$		DNA Cha47 EDATO Dai
360	6039	AA942716	x.General		DNA segment, Chr 17, ERATO Doi 441, expressed, hematological and neurological expressed 1
361	11174	AA942745	g,o,w		neurological expresses 1
362	23005	AA942770	9.0.0	· · · · · · · · · · · · · · · · · · ·	
363	21318	AA942774	General		
364	6615	AA942889	v	· · · · · · · · · · · · · · · · · · ·	
365	6691	AA943028	c		RAT MACROPHAGE COLONY STIMULATING FACTOR I RECEPTOR PRECURSOR [R.norvegicus], colony stimulating factor 1 receptor, colony stimulating factor 1 receptor, formerly McDonough feline sarcoma viral (v-fms) oncogene homolog  DEAD (aspartate-glutamate-alanine- aspartate) box polypeptide 5, DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 17 (72kD), KIAA0801 gene product, RIKEN cDNA 2610007K22 gene, RIKEN cDNA 4921506D17 gene, RIKEN cDNA 9130430L19 gene, RNA helicase, Rattus norvegicus RNA helicase with arginine-serine-rich domain mRNA, complete cds, expressed sequence Al325430, hypothetical protein, prp28, U5 snRNP
366	22142	AA943066	р		100 kd protein ALEX1 protein, ALEX3 protein,
367	21993	AA943149	v,General		armadillo repeat protein ALEX2, hypothetical protein MGC3195
368	9061	AA943508	General		TU3A protein, hypothetical protein MGC11034
					ESTs, Weakly similar to VIL1 MOUSE VILLIN [M.musculus], actin binding LIM protein 1, advillin, erythrocyte membrane protein band 4.9 (dematin).

TABLE	g kawan	KONOFOGREV	EXPORATIONS	u-arc	i: Any Doctor No. 4924-5189W
Seq. ID Ko:	D.	Consent Ace! Roi: Son Id No.	Marial (Gallass	Henciogove Conglication of the conglication of the conglication of the conglication of the congression of th	Doc. No. 1793897.
ikes	realitate).	किरवार ठावरीर गाम (०००	modal ecca x	Meanto-An Server	EST, Moderately similar to 138369 bet tubulin [H.sapiens], EST, Weakly similar to 138369 beta-tubulin [H.sapiens], EST, Weakly similar to TUBULIN BETA-5 CHAIN
					[M.musculus], ESTs, Highly similar to A25113 tubulin beta chain 15 - rat [R.norvegicus], FK506-binding protein 1A (12kD), RIKEN cDNA 2310061K05 gene, RIKEN cDNA 2410129E14 gene, tubulin, beta 2, tubulin, beta 5,
370	13976	AA943532	f,s,x		tubulin, beta polypeptide ajuba, expressed sequence Al481106
371	22248	AA943537	cc,General		expressed sequence R75157, zyxin TATA box binding protein (TBP)-associated factor, RNA polymerase II.
372	22257	AA943558	m		J, 20kD
373	12673	AA943773	u,cc,General		
374	13641	AA944154	u F		
375 376	2658 12770	AA944155 AA944161	d		
					CDC28 protein kinase 2, RIKEN cDNA 1110038L14 gene, expressed
377	20903	AA944180	i,x		sequence AI047807
378	13507	AA944244	V	<u> </u>	
379	15596	AA944353	General i.v.cc.General	<del></del>	
380 381	22681 6711	AA944413 AA944439	General	ļ	
382	14763	AA944481	i,q,General ·		ESTs, Highly similar to AGP2_RAT ANGIOPOIETIN-2 (ANG-2) [R.norvegicus], angiopoletin 1, angiopoietin 2, angiopoletin-like 3, angiopoietin-like 4, angiopoietin-like factor
383	22466	AA944605	h		
384	12301	AA944727	Ъ		B-cell CLL/lymphoma 3, B-cell leukemia/lymphoma 3, ESTs, Highly similar to A44437 regenerating liver inhibitory factor RU/IF-1 - rat [R.norvegicus], ESTs, Weakly similar to I-kappa B alpha chain [M.musculus] molecule possessing ankyrin repeats induced by lipopolysaccharide (MAIL), homolog of mouse, nuclear factor of kappa light chain gene enhancer in B-cells 1, p105, nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon, testis-specific ankyrin motif containing protein
385	7023	AA944792	d,m,aa		
386	22536	AA944803	bb	<u> </u>	
					CGI-89 protein, hypothetical protein DKFZp667O2416, hypothetical protein FLJ20984, leukocyte receptor cluster
387	22501	AA944811	g,l		(LRC) member 4
388	23967	AA944831	s		·
389	26084	AA944922	i		
390	11974	AA944958	General	ļ	
391	22547	AA944970	aa	L	

TABLES	e canixixxi	KONOLOGAE VX	ROTATIONS		Any Dockel Ko. 4421-5333W0 
80g. [D.	lderiller)	Cenenii Acel Rel Seg ID Not	Model Gods	Momologous Cono Kema	Comed refer to the control of the co
392	22554	AA945076	z,General		
393	14352	AA945181	General		
395	1798	AA945569	General		
396	22050	AA945604	i,aa		
397	19731	AA945615	d,o		
	22642		a.General		Diaphorase (NADH/NADPH), NAD(P)H menadione oxidoreductase 2, dioxin inducible, NAD(P)H menadione oxidoreductase 2, dioxin-inducible, diaphorase (NADH/NADPH) (cytochrome b-5 reductase), diaphorase 4 (NADH/NADPH)
398 399	22612 22618	AA945624 AA945656	aa		diaphorase 4 (NADI WADI 11)
400	11871	AA945679	V		
401	22656	AA945818	General		
402	6720	AA945828	p	· · · · · · · · · · · · · · · · · · ·	
403	22351	AA945867	m P		
404	22665	AA945877	f		
405	24243	AA945950	b		
406	22689	AA945962	General		
407	22692	AA945986	d		
408	22696	AA945996	c,General		
408	22697	AA945996	c,o		
409	22658	AA945998	w		
410	20832	AA946040			MOUSE CYTOCHROME C OXIDASE POLYPEPTIDE VIB [M.musculus], Human DNA sequence from clone RP4-591N18 on chromosome 22q13.1-13.2 Contains a COX6B (Cytochrome C Oxidase subunit VIb (EC 1.9.3.1)) pseudogene, ESTs, GSSs and two putative CpG islands, RIKEN cDNA 2010000G05 gene, cytochrome c oxidase subunit VIb
411	18337	AA946046	General		
412	825	AA946108	General		EST, Highly similar to LMA3_HUMAN LAMININ ALPHA-3 CHAIN PRECURSOR [H.sapiens], ESTs, Highly similar to LMA3_HUMAN LAMININ ALPHA-3 CHAIN PRECURSOR [H.sapiens], Homo sapiens cDNA: FLJ21236 fis, clone COL01111, expressed sequence Al853660, laminin, alpha 3 (nicein (150kD), kalinin (165kD), BM600 (150kD), epilegrin)
413	8639	AA946221	e,cc,General	<b> -</b>	
414 415	23237 15600	AA946224 AA946250	o,aa		
413	13000	777340230	u,aa		actin related protein 2/3 complex,
416	19387	AA946275	t		subunit 3 (21 kD)
417	6351	AA946344	ď	·	EST, Weakly similar to JC5111 cyclin- dependent kinase-related protein 1b - rat [R.norvegicus], EST, Weakly similar to S10889 proline-rich protein [H.sapiens], ESTs, Highly similar to JC5111 cyclin-dependent kinase- related protein 1b - rat [R.norvegicus], Homo sapiens ALS2CR7 mRNA, complete cds, PCTAIRE protein kinase 1, PCTAIRE-motif protein kinase 1, PFTAIRE protein kinase 1
417	22057	AA946348	6		LI LYILE Moteri Kirase 1
1410			aa		
419	22069	AA946349			

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421 422	18280 18944	AA946361 AA946391	9		EST, Moderately similar to 1923401A protein CBP [M.musculus], EST, Weakly similar to 1923401A protein CBP [M.musculus], ESTs, Highly similar to 1923401A protein CBP [M.musculus], ESTs, Weakly similar to 1923401A protein CBP [M.musculus], bromodomain, testis-specific, bromodomain-containing 2
424	21410	AA946408	<u>,                                      </u>		
1424	21710	243-10-10			EST, Highly similar to HISTONE H4 [R.norvegicus], H4 histone family, member D, H4 histone family, member H, H4 histone family, member I, H4 histone family, member I, H4 histone family, member K, Mus musculus 10 day old male pancreas cDNA, RIKEN full-length enriched library, clone: 1810029H14, full insert sequence, Mus musculus 10 days embryo cDNA, RIKEN full-length enriched library, clone:2610027B07, full insert sequence, Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930558J22, full insert sequence, Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310067E17, full insert sequence, Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310067E17,
425	643	AA946439			full insert sequence, germinal histone H4 gene, histone 4 protein
426	20736	AA946443	o.y		EST. Weakly similar to NPD1_HUMAN NEURAL PROLIFERATION DIFFERENTIATION AND CONTROL PROTEIN-1 PRECURSOR (NPDC-1 PROTEIN) [H.sapiens], expressed sequence Al314472, neural proliferation, differentiation and control gene 1, neural proliferation, differentiation and control, differentiation and control, 1
427	21878	AA946448	r .		differentiation and control, 1
428 429	21947 17499	AA946451 AA946467	bb General		EST, Highly similar to AF151863 1 CGI 105 protein [H.sapiens]
430	1809	AA946503	x,General		
431	23360	AA955104	7	· · · · · · · · · · · · · · · · · · ·	
432	23471	AA955162	General		
433	9452	AA955206	b,General		
434	23512	AA955282	General		
435	22596	AA955298	General		
436	23283	AA955391	h		high density lipoprotein binding protein (vigilin)
437	23546	AA955393 AA955408	General b		ESTs, Weakly similar to SX10 RAT TRANSCRIPTION FACTOR SOX-10 [R.norvegicus], SRY (sex determining region Y)-box 10, SRY (sex determining region Y)-box 9 (campomelic dysplasia, autosomal sexreversal), SRY-box containing gene 10, expressed sequence AV220920
439	23626	AA955540	aa		

TABLE 8	: HUMAN	HOMOLOGUE AN	NOTATIONS		Aug. Dochei No. 44921-503900 Doc. No. 1793397.1
Seg. ID.: No : :	ldeniiier	Concent Acel. Ref. Seq. ID No.		Hamologous Cine	Honologous Ciusiei Namo
441	17540	AA955914	bb		EST, Highly similar to FBRL MOUSE FIBRILLARIN [M.musculus], EST, Weakly similar to A38712 fibrillarin [H.sapiens], ESTs, Highly similar to A38712 fibrillarin [H.sapiens], ESTs, Weakly similar to FBRL MOUSE FIBRILLARIN [M.musculus], expressed sequence AL022665, fibrillarin
442	24277	AA955962	General		
443	19939	AA955980	General		
					ESTs, Weakly similar to PCB3_MOUSE POLY(RC)-BINDING PROTEIN 3 (ALPHA-CP3) [M.musculus], ESTs, Weakly similar to ROK_HUMAN HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN K [R.norvegicus], IGF-II mRNA-binding protein 3, RIKEN cDNA 2610101N11 gene, coding region determinant-binding protein, heterogeneous nuclear ribonucleoprotein K, poly(rC)-binding
444	24000	AA956005			protein 3, poly(rC)-binding protein 4 EST, Weakly similar to T-COMPLEX PROTEIN 1, EPSILON SUBUNIT [M.musculus], ESTs, Moderately similar to T-COMPLEX PROTEIN 1,
					EPSILON SUBUNIT [M.musculus], T- complex 1, chaperonin containing TCP1, subunit 5 (epsilon), chaperonin subunit 5 (epsilon), expressed sequence Al528772, t-complex 1, t-
445	11050	AA956164	S,V		complex protein 1
446	498	AA956278	a,General		<u> </u>
447	23409	AA956294	9		
449	23773	AA956476	f,x		
450	23799	AA956530	d		
451	23800	AA956534	aa		ESTs, Weakly similar to RNG1_HUMAN RING1 PROTEIN [H.sapiens], ring finger protein 1, ring finger protein 2
452	23834	AA956659	cc,General		
453	16425	AA956688	f,x		gene rich cluster, C8 gene, hypothetical protein MGC2577
454	23847	AA956723	s		
455	23852	AA956746	j.l,m.z		ESTs, Weakly similar to CHD4_HUMAN CHROMODOMAIN HELICASE-DNA-BINDING PROTEIN 4 [H.sapiens], KIAA1416 protein, KIAA1696 protein, chromodomain helicase DNA binding protein 4
					DnaJ (Hsp40) homolog, subfamily C, member 8, Homo sapiens mRNA; cDNA DKFZp434C2016 (from clone DKFZp434C2016), eukaryotic translation initiation factor 3, eukaryotic translation initiation factor 3, subunit 10 (theta, 150/170kD), expressed sequence C85189, guanylate kinase membrane-associated inverted 1, hypothetical protein DKFZp434B227, nasopharyngeal epithelium specific

SADIE 9	e adultavani	Homologue An	C SYMTATION	ana kaominina dia mana	:Am. Dockot No. 41921-51199Wo
INCLESS C	***			3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Dos. No. 1788897.1
Seg. (D)	lebillier	Conbank Acc./ Ref. Sec. ID No.	Model Gode	TO CALCO EVOLOGICE AND THE CONTROL AND THE CON	Monologous Givelor Chave
					DnaJ (Hsp40) homolog, subfamily C, member 8, Homo sapiens mRNA; cDNA DKFZp434C2016 (from clone DKFZp434C2016), eukaryotic translation initiation factor 3, eukaryotic translation initiation factor 3, subunit 10 (theta, 150/170kD), expressed sequence C85189, guanylate kinase membraneassociated inverted 1, hypothetical protein DKFZp434B227,
456	5990	AA956907	General		nasopharyngeal epithelium specific protein 1
457	23957	AA957123	u,General		X-linked protein, brain expressed, X- linked 1, hypothetical protein FLJ10097, nerve growth factor receptor (TNFRSF16) associated protein 1
457	23957	AA957 123	u,General		EST, Weakly similar to T12456
458	22357	AA957264	General		hypothetical protein DKFZp564M2423.1 [H.sapiens], ESTs, Highly similar to T12456 hypothetical protein DKFZp564M2423.1 [H.sapiens], PAI-1 mRNA-binding protein, intracellular hyaluronan- binding protein
			g,l,m,p,v,cc,Gene		
459 460	23314 23995	AA957270 AA957292	ral a,b	*	
461	2702	AA957307	General		EST, Moderately similar to G01026 serine—tRNA ligase [H.sapiens], hypothetical protein FLJ20450, seryl- tRNA synthetase, uncharacterized gastric protein YC12P
	· ·				CD3 antigen, zeta polypeptide, CD3Z antigen, zeta polypeptide (TiT3 complex), Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide, Fc receptor, IgE, high affinity I, gamma polypeptide,
. 462	24040	AA957422	<u>c</u>		expressed sequence Al573376 EST, Weakly similar to S01696 gene P3 protein [H.sapiens], ESTs, Highly
463	12478	AA957554	m		similar to P3 PROTEIN [M.musculus], Protein P3
464	21306	AA957811	v		110001110
465 ·	24183	AA957889	t		
467	17034	AA957905 AA963071	e		EST, Moderately similar to COPE_HUMAN COATOMER EPSILON SUBUNIT [H.sapiens], ESTs, Highly similar to COPE_HUMAN COATOMER EPSILON SUBUNIT [H.sapiens], coatomer protein complex, subunit epsilon, hypothetical protein FLJ13241
					X-linked protein, brain expressed, X- linked 1, hypothetical protein FLJ10097, nerve growth factor receptor (TNFRSF16) associated
468 469	24053 2767	AA963092 AA963201	General o		protein 1
470	2022	AA963259	9	·	
471	2126	AA963488	d		
472 473	24246 2195	AA963703 AA963746	b General		
474	19370	AA963797	i		

TABLES	e Chumani	HOMOLOGUEAN	EXOTATIONS .		: Ativ. Doc 2011
Seg.ID. No. 1441	lee Mier	ConBank Acc <i>l</i> Ref. Seq. (D.No.	Model Code	Homologous Gara Nama	Homologous Civelor Namo
475	2282	AA964147	е		
476	2284	AA964152	x		
				f	ubiquitin specific protease 14 (tRNA-
478	2350	AA964368	g,General		guanine transglycosylase)
		,		·	ESTs, Weakly similar to A29861 actin gamma [H.sapiens], ESTs, Weakly similar to I39393 alpha-actin [H.sapiens], ESTs, Weakly similar to S38782 actin beta' chain [H.sapiens], Homo sapiens mRNA; cDNA DKFZp434B2115 (from clone DKFZp434B2115), RIKEN cDNA 1700052K15 gene, RIKEN cDNA 1700061J02 gene, actin-like 7a, expressed sequence AL023024,
					expressed sequence AV259599,
					melanoma X-actin, uncharacterized
479	18830	AA964496	aa		hypothalamus protein HARP11
480	2392	AA964541	D		
481	2395	AA964554	General		
482	2410	AA964589	i,aa		
483	19145	AA964613	t		
484	2424	AA964617	9		
485	3107	AA964687	General		
486	2457	AA964752	q,t		
487	6778	AA964763	b		
489	2468	AA964807	<u> </u>		ESTs, Highly similar to GSH0_HUMAN
490	 2469	AA964814	w	glutamate-cysteine ligase , modifier subunit, glutamate- cysteine ligase, modifier subunit	GLUTAMATE—CYSTEINE LIGASE REGULATORY SUBUNIT [H.sapiens], glutamate-cysteine ligase, modifier subunit, glutamate-cysteine ligase, modifier subunit
491	12561	AA964815	General		
492	2326	AA964892	aa	,	EST, Weakly similar to PROCOLLAGEN ALPHA 1(IV) CHAIN PRECURSOR [M.musculus], collagen, type IV, alpha 1, procollagen, type IV, alpha 3, procollagen, type IV, alpha 5
493	21339	AA964962	General		ATP-binding cassette, sub-family A (ABC1), member 1, ATP-binding cassette, sub-family A (ABC1), member 12, ATP-binding cassette, sub-family A (ABC1), member 7, EST, Moderately similar to ABC1_HUMAN ATP-BINDING CASSETTE, SUB-FAMILY A, MEMBER 1 [H.sapiens], EST, Weakly similar to ABC1 MOUSE ATP-BINDING CASSETTE, SUB-FAMILY A, MEMBER 1 [M.musculus], RIKEN cDNA 1810036E22 gene
494	21390	AA964988	General		-
495	12569	AA965023	9		
496	2583	AA965166	bb		Homo sapiens, clone MGC:8857 IMAGE:3866266, mRNA, complete cds, inorganic pyrophosphatase, pyrophosphatase (inorganic)
					EST, Highly similar to T14795 hypothetical protein DKFZp434E171.1
497	15885	AA965207	r		[H.sapiens]
499	2905	AA996727	b,I,m,u,General		
500	2915	AA996782	u,bb		ESTs, Moderately similar to LAMIN B3 [M.musculus], hypothetical protein MGC2721, lamin B1, lamin B2
501 502	2920 19525	AA996813 AA996856	d aa,General		

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Sog. [ID :	Meniller	ConBent Acel Rel Segild No.	Model Gode	Homologova Ciria. I Namo	Homologors Cluster Rangolomo H
503	2984	AA997015	С		
504	2986	AA997028	General		
505	3145	AA997237	General		
506	19249	AA997342	m		
507	16883	AA997345	General		
: .,					methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate
. 509	12598	AA997374	S .		cyclohydrolase, protease, serine, 15 EST, Weakly similar to LIS1 MOUSE PLATELET-ACTIVATING FACTOR ACETYLHYDROLASE IB ALPHA SUBUNIT [R.norvegicus], ESTs, Weakly similar to LIS1 MOUSE PLATELET-ACTIVATING FACTOR ACETYLHYDROLASE IB ALPHA SUBUNIT [R.norvegicus], WD repeat domain 3, f-box and WD-40 domain protein 2, hypothetical protein MGC2655, platelet-activating factor acetylhydrolase beta subunit (PAF-AH beta), platelet-activating factor acetylhydrolase, isoform 1b, beta1 subunit, platelet-activating factor acetylhydrolase, isoform 1b, alpha subunit (45kD)
510	3180	AA997425	1		0000
511 512	3245 3020	AA997608 AA997656	General		EST, Weakly similar to PLASMINOGEN ACTIVATOR INHIBITOR-2, TYPE A [R.norvegicus], expressed sequence Al876477, expressed sequence C76171, plasminogen activator inhibitor 2 type A, serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 2, serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 6, serine protease inhibitor 12
312	3020	W4991000	<u> </u>		Homo sapiens, clone IMAGE:4810400,
513	3269	AA997800	x,aa		mRNA, antigen identified by monoclonal antibody KI 67
514	3288	AA997877	f		
515	23992	AA998164	k,x	·	DNA segment, Chr 4, ERATO Doi 639, expressed, EST, Moderately similar to CGB2 MOUSE G2/MITOTIC-SPECIFIC CYCLIN B2 [M.musculus], ESTs, Weakly similar to CGB1_HUMAN G2/MITOTIC-SPECIFIC CYCLIN B [H.sapiens], cyclin B1
516	17470	AA998264	b		biliverdin reductase B (flavin reductase (NADPH))
517	3773	AA998356	General		B-cell CLL/lymphoma 3, molecule possessing ankyrin repeats induced by lipopolysaccharide (MAIL), homolog of mouse, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon
518	19623	AA998422	General		
519	3572	AA998516	×		ESTs, Weakly similar to G2/MITOTIC- SPECIFIC CYCLIN B1 [R.norvegicus], cyclin A2, cyclin B1, cyclin B1, related sequence 1, cyclin B2
520	2782	AA998565	c		cyclin-dependent kinase inhibitor 1C (P57), cyclin-dependent kinase inhibitor 1C (p57, Kip2)

(dentifier) 26119 22737 3696 3079	GenBent: Acc.// Ref. Seq. ID No. AA998576 AA998660 AA999030 AA999169	Model Goda i.r.,w,General aa e k.x.General	Homologous Gene Name Lea	Signal transducer and activator of transcription 3, expressed sequence AA408197, signal transducer and activator of transcription 1, signal transducer and activator of transcription 1, 91kD, signal transducer and activator of transcription 2, signal transducer and activator of transcription 2, signal transducer and activator of transcription 3, signal
22737 3696 3079	AA998660 AA999030	e aa		transcription 3, expressed sequence AA408197, signal transducer and activator of transcription 1, signal transducer and activator of transcription 1, 91kD, signal transducer and activator of transcription 2, signal transducer and activator of transcription 2, signal transducer and activator of transcription 3, signal
3696 3079	AA999030	8		transcription 3, expressed sequence AA408197, signal transducer and activator of transcription 1, signal transducer and activator of transcription 1, 91kD, signal transducer and activator of transcription 2, signal transducer and activator of transcription 3, signal
3079				transcription 3, expressed sequence AA408197, signal transducer and activator of transcription 1, signal transducer and activator of transcription 1, 91kD, signal transducer and activator of transcription 2, signal transducer and activator of transcription 2, signal transducer and activator of transcription 3, signal
	AA999169	k.x.General		transcription 3, expressed sequence AA408197, signal transducer and activator of transcription 1, signal transducer and activator of transcription 1, 91kD, signal transducer and activator of transcription 2, signal transducer and activator of transcription 2, signal transducer and activator of transcription 3, signal
3081		·		transcription 3, expressed sequence AA408197, signal transducer and activator of transcription 1, signal transducer and activator of transcription 1, 91kD, signal transducer and activator of transcription 2, signal transducer and activator of transcription 2, signal transducer and activator of transcription 3, signal
	AA999171	e,p,r	signal transducer and activator of transcription 1, 91kD	transducer and activator of transcription 3 (acute-phase response factor), signal transducer and activate of transcription 4 ESTs, Moderately similar to A54847
				GMP synthase [H.sapiens], guanine
3082	AA999172	General		monphosphate synthetase
17337 .	AB000717	k		-
				phospholipase D1, phophatidylcholine
1535	AB000778	a		specific, phospholipase D2 Homer, neuronal immediate early
1382 20184	AB002406 AB003753	k d	RuvB (E coli homolog)-like 1, RuvB-like protein 1	early gene, 2, homer, neuronal immediate early gene, 1, homer, neuronal immediate early gene, 2
4312	AB010635	c,i,j.k,y,z		EST, Weakly similar to JC5408 carboxylesterase [H.sapiens], ESTs, Moderately similar to ES22 MOUSE LIVER CARBOXYLESTERASE 22 PRECURSOR (M.musculus), ESTs, Weakly similar to A48809 carboxylesterase [H.sapiens], ESTs, Weakly similar to JC5408 carboxylesterase [H.sapiens], T-complex expressed gene 5, carboxylesterase 1, carboxylesterase 2 (intestine, liver), carboxylesterase 3 carboxylesterase 3 (brain), hypothetical protein FLJ21736 DNA (cytosine-5-)-methyltransferase 1, DNA (cytosine-5-)-methyltransferase 2, DNA methyltransferase 2, DNA methyltransferase (cytosine-5) 1, EST
21666	AB012214	k		Weakly similar to JE0378 DNA [R.norvegicus], Mus musculus DNA cytosine methyltransferase mRNA, f-box and leucine-rich repeat protein 11 protein containing CXXC domain 2  Mus musculus mouse-thyrotropin-releasing hormone receptor 2 (TRH-R2) mRNA, complete cds, thyrotropin-releasing hormone receptor, thyrotropin-releasing hormone receptor,
	1382 20184	1535 AB000778  1382 AB002406 20184 AB003753  4312 AB010635  21666 AB012214	1535 AB000778 a  1382 AB002406 k  20184 AB003753 d  4312 AB010635 c.i.j.k,y,z	1535 AB000778 a  RuvB (E coli homolog)-like 1, RuvB-like protein 1  AB003753 d  AB010635 c,i,j,k,y,z

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Seg. ID No.	ldenilier.	Coneonii Ace. Rei Seq. ID No	Model Gode 4	Honologous Cene Name	eriel relevid evogologio
					ESTs, Weakly similar to DUS8_HUMAN DUAL SPECIFICITY PROTEIN PHOSPHATASE 8 [H.sapiens], Human DNA sequence from clone RP11-243J16 on chromosome 20 Contains parts of 2 isoforms of the BCL2L1 (BCL2-like 1) gene, the gene for a novel protein (FLS353), the gene for a protein similar to MYLK (myosin, light polypeptide kinase), the FKHL18 (forkhead (Drosophila)-like 18) gene, part of three novel genes, ESTs, STSs, GSSs and CpG islands, KIAA1725 protein, dual specificity phosphatase 13, dual specificity phosphatase 14, dual specificity phosphatase 5, expressed sequence BB104621, expressed sequence C79103, protein tyrosine phosphatase,
534	1183	AF013144	h		non-receptor type 16 B-cell CLL/lymphoma 6, member B (zinc finger protein), ESTs, Moderately
535	1582	AF015911	h,z		Kinic Iniger protein), E31s, Moderately similar to zinc finger protein [H.sapiens], Homo sapiens, Similar to RIKEN cDNA 0610020102 gene, clone MGC:23427 IMAGE:4654320, mRNA, complete cds
536	11483	AF020618	u,cc,General		oompicio oco
537	20295	AF024712	aa		HLA-G histocompatibility antigen, class I, G
538	19077	AF030358	y,z		hypothetical protein, clone 1-53, small inducible cytokine subfamily D (Cys-X3 Cys), member 1 (fractalkine, neurotactin), small inducible cytokine subfamily D, 1
539	23044	AF034218	General		RIKEN cDNA 4632428M18 gene, hyaluronidase 1, hyaluronidase 2, hyaluronoglucosaminidase 1, hyaluronoglucosaminidase 2, hyaluronoglucosaminidase 3, sperm adhesion molecule
540	25178	AF035955	d	<u> </u>	ESTs, Moderately similar to hepatitis A
541	1564	AF035963	x,bb,General		virus cellular receptor 1 [H.sapiens], ESTs, Moderately similar to kidney injury molecule-1 [R.norvegicus], ESTs, Weakly similar to kidney injury molecule-1 [R.norvegicus]
542	8426	AF036335	ſ		ESTs, Moderately similar to NR54_HUMAN 54 KDA NUCLEAR RNA-BINDING PROTEIN [H.sapiens], ESTs, Moderately similar to p54nrb [H.sapiens], ESTs, Weakly similar to A54691 octamer-binding protein NonO - mouse [M.musculus], ESTs, Weakly similar to PSF_HUMAN PTB-ASSOCIATED SPLICING FACTOR [H.sapiens], RIKEN cDNA 5730470C09 gene, RIKEN cDNA 9030402K04 gene, non-POU-domain-containing, octamer-binding protein

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839. [D:	idonilior:	ConBank Ace./ Ref. Seq. ID No.	Model Godo 🕏	Homologous Cone Clame 47	emski islavih avegolomek
					ESTs, Highly similar to A55318 serine/threonine protein kinase [M.musculus], ESTs, Weakly similar to RIP MOUSE SERINE/THREONINE PROTEIN KINASE RIP [M.musculus], Human DNA sequence from clone RP5-1182A14 on chromosome 1 Contains part of a gene similar to rat Espin, a pseudogene similar to MST1 (macrophage stimulating 1 (hepatocyte growth factor-like)), a pseudogene similar to KIAA0454, by o isoforms of a novel gene (isoform 2 is the gene for KIAA1245 protein), ESTs, STSs, GSSs and CpG islands, ankyrin repeat domain 3, cerebral cavernous malformations 1, mitogen activated protein kinase kinase kinase 12,
543	21817	AF036537	k _		mitogen-activated protein kinase kinase kinase 12, receptor (TNFRSF)- interacting serine-threonine kinase 1, receptor interacting protein 3, receptor- interacting serine-threonine kinase 2
544	21145	AF038571	General	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1, solute carrier family 1, member 1	
545	22602	AF044574	General		2.4-dienoyl CoA reductase 1, mitochondrial, 2,4-dienoyl CoA reductase 2, peroxisomal, 2-4-dienoyl- Coenzyme A reductase 2, peroxisomal, ESTs, Weakly similar to S11021 2,4-dienoyl-CoA reductase [R.norvegicus], Homo sapiens AS10 protein mRNA, partial cds, RIKEN cDNA 1200012F07 gene, RIKEN cDNA 2400003B18 gene, hydroxyprostaglandin dehydrogenase 15 (NAD), hydroxysteroid (17-beta) dehydrogenase 10, peroxisomal trans 2-enoyl CoA reductase; putative short chain alcohol dehydrogenase
546	13464	AF047707	h	•	UDP-glucose ceramide glucosyltransferase
547	24024	AF052695	x		
548	12259	AF061266	h		EST, Highly similar to JC5807 trp3 protein - rat [R.norvegicus], EST, Weakly similar to TRP1_MOUSE TRANSIENT RECEPTOR POTENTIAL CHANNEL 1 (TRANSIENT RECEPTOR PROTEIN 1) (MTRP1) (TRP-RELATED PROTEIN 1) [M.musculus], transient receptor potential channel 1, transient receptor protein 1, transient receptor protein 3, transient receptor protein 4, transient receptor protein 5

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309, ID: No : :	Manual de la constant	ConBank Aced Ref. Seq. ID No.	Model Code ::	Honologous Cere	සිකාවෙනුගෙන් සිවුන්වා දිනාල
					EST, Highly similar to A61209 hypertension-associated protein SA-rat [R.norvegicus], ESTs, Highly similar to A61209 hypertension-associated protein SA-rat [R.norvegicus], ESTs, Weakly similar to I54401 hypertension-associated protein SA [H.sapiens], KIAA1504
549	4589	AF062389	y,z		protein, SA (rat hypertension- associated) homolog, SA rat hypertension-associated homolog, expressed sequence AI788978, hypothetical protein FLJ20581, medium-chain acyl-CoA synthetase, solute carrier family 27 (fatty acid transporter), member 1, solute carrier family 27 (fatty acid transporter), member 4
34 <u>9</u>	4363		y,2		ESTs, Highly similar to 2008109A set gene [R.norvegicus], ESTs, Highly similar to SET_HUMAN SET PROTEI [H.sapiens], SET translocation, SET translocation (myeloid leukemia-associated), nucleosome assembly protein 1-like 1, nucleosome assembly
EE0	16007	AF062594		nucleosome assembly protein 1-like 1	protein 1-like 2, nucleosome assembly protein 1-like 4
550				· ·	KIAA1348 protein, protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform
551 552	15761 17426	AF062741 AF073839	p		ISOlomi
553	18615	AF074608	s		
554	15797	AF084205	f		ESTs. Moderately similar to T17365 serine/threonine protein kinase TAO1 rat [R.norvegicus], ESTs, Weakly similar to ST25_MOUSE SERINE/THREONINE PROTEIN KINASE 25 (STERILE 20/OXIDANT STRESS-RESPONSE KINASE 1) (STE20/OXIDANT STRESS RESPONSE KINASE-1) (SOK-1) (STE20-LIKE KINASE) [M.musculus], KIAA1361 protein, STE20-like kinase expressed sequence AU020252, prostate derived STE20-like kinase PSK, serine/threonine kinase 10, thousand and one amino acid protein kinase ESTs, Moderately similar to A55575
555	12932	AF102552			ankyrin 3, long splice form [H.sapiens RIKEN cDNA 2310026G15 gene, RIKEN cDNA 2410004E01 gene, RIKEN cDNA 2410197A17 gene, RIKEN cDNA 4933400N19 gene, RIKEN cDNA 8430401K06 gene, RIKEN cDNA 6430011H06 gene, RIKEN cDNA C430011H06 gene, ankyrin 3, node of Ranvier (ankyrin Ghypothetical protein FLJ20189, phospholipase A2, group VI, phospholipase A2, group VI (cytosolic calcium-independent), proteasome (prosome, macropain) 26S subunit, non-ATPase, 10

TABLE &	e HUMAN	nomorogae vi	A SKONATOKI		: 4117. Docket No. 44921-5019WC
	ه دو چو				Doc. No. 1798897.
Seq. (D) No. 6 V	Sentifice of	ConEarl Ace./ Roi Seq. ID.No.	Model Code	Honologove Cone	Liginologous Euser Kamo
,					EST, Moderately similar to A49013
					tumor cell suppression protein HTS1
					[H.sapiens], KIAA1277 protein,
			ŀ		hypothetical protein FLJ22457,
556	18603	AI007649	×		suppression of tumorigenicity 5
557	22733	AI007668	r		
558	22746	Al007672 .	Г		
559	24109	AI007725	General		
					EST, Highly similar to HS9B RAT HEAT SHOCK PROTEIN HSP 90-
					BETA [R.norvegicus], EST, Weakly similar to HHMS84 heat shock protein
			ļ		84 - mouse [M.musculus], ESTs,
					Highly similar to T46243 hypothetical protein DKFZp761K0511.1
					[H.sapiens], expressed sequence
					AL022974, expressed sequence
					C81438, heat shock 90kD protein 1,
560	15848	AI007820	n,v		beta, heat shock protein, 84 kDa 1
					HGF-regulated tyrosine kinase
					substrate, Homo sapiens cDNA FLJ13428 fis, clone PLACE1002493.
					highly similar to Homo sapiens signal
		,		•	transducing adaptor molecule 2A
				(1	(STAM2) mRNA, Mouse 31-kDa
		•		\	proline-rich salivary protein, complete
					cds of clone pUMP125, Mus musculus
				•	Similar to proline-rich protein BstNI
					subfamily 2, clone MGC:18611
			- (		IMAGE:4165240, mRNA, complete
					cds, RIKEN cDNA 1700120F24 gene,
					RIKEN cDNA 4930406E12 gene,
					Rattus norvegicus proline-rich
				(1	proteoglycan (PRPG2) mRNA,
				•	complete cds, proline-rich protein HaeIII subfamily 2, signal transducing
					adaptor molecule (SH3 domain and
561	10108	AI007857	i		ITAM motif) 2
562	6804	AI007877	General		
563	20099	Al007893	f,u		
564	11368	Al007948	d		
				-	EST, Highly similar to HS9B RAT
					HEAT SHOCK PROTEIN HSP 90-
					BETA [R.norvegicus], EST, Weakly
					similar to HHMS84 heat shock protein
				\	84 - mouse [M.musculus], ESTs,
					Highly similar to T46243 hypothetical
					protein DKFZp761K0511.1
					[H.sapiens], expressed sequence
					AL022974, expressed sequence
565	15849	A1008074	h		C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1
566	3121	Al008074	General		CGI-83 protein
~~	U121	A1000100	Ochiciai		COI-OO PIOLBIII

TABLES	NYMAN (	HOWOTOGATE VI	NOTATIONS		% (Ally, Docket No. 44921-5939) (O. 17689)
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Sog. (D.)	ດວ່າ ຕໍ່ຕ້າ	Confernis Aced	್ಟ್ರಿಕ್ಟ್ ಆಪರಿಕಾನಿಗಳನ್ನು	Homologous Cono Nemo : : : : : : : : : : : : : : : : : : :	Homologovia Cluster Name
		,	<u></u>		EST, Highly similar to JC7290 guanine nucleotide binding protein G gamma 2 chain [H.sapiens], EST, Weakly similar to GBG9 RAT GUANINE NUCLEOTIDE-BINDING PROTEIN
			· ·		G(I)/G(S)/G(O) GAMMA-9 SUBUNIT [M.musculus], EST, Weakly similar to JC7290 guanine nucleotide binding protein G gamma 2 chain [H.sapiens], RIKEN cDNA 1110003P13 gene, guanine nucleotide binding protein (G protein), gamma 12, guanine nucleotide binding protein (G protein),
·					gamma 2, guanine nucleotide binding protein (G protein), gamma 2 subunit, guanine nucleotide binding protein (G protein), gamma 3 subunit, guanine nucleotide binding protein (G protein), gamma 4 subunit, guanine nucleotide
567	16646	AI008190	t		binding protein 4 EST, Moderately similar to CGB2
		·		·	MOUSE G2/MITOTIC-SPECIFIC CYCLIN B2 [M.musculus], ESTs, Weakly similar to G2/MITOTIC- SPECIFIC CYCLIN B1 [R.norvegicus], Homo sapiens cDNA FLJ13342 fis, clone OVARC1001950, cyclin A1,
568	12683	AI008203	x		cyclin B1, cyclin B1, related sequence 1, cyclin B2
					ESTs, Highly similar to PROTO- ONCOGENE SERINE/THREONINE- PROTEIN KINASE PIM-1 [M.musculus], ESTs, Highly similar to S55333 protein kinase pim-2 [M.musculus], ESTs, Moderately similar to S55333 protein kinase pim-2 [M.musculus], Pim-1 oncogene, pim-1 oncogene, pim-2 oncogene, proviral integration site 1, serine threonine
569	22018	AI008309	b		kinase pim3
570	23917	AI008441	n Canaral		phosphogluconate dehydrogenase
571	22599	A1008458	General D. Gonomi		
572 573	22698 14405	AI008578 AI008579	p,General r,x		
	_				EST, Weakly similar to JH0446 75K autoantigen [H.sapiens], polymyositis/scleroderma autoantigen
574	4086	A1008629	X		1 (75kD) DnaJ (Hsp40) homolog, subfamily B, member 1, DnaJ (Hsp40) homolog, subfamily B, member 12, DnaJ (Hsp40) homolog, subfamily B, member 4, DnaJ (Hsp40) homolog, subfamily B, member 5, ESTs, Weakly similar to HS4L_HUMAN HEAT SHOCK 40 KDA PROTEIN 1 HOMOLOG [H.sapiens], RIKEN cDNA 1700029A20 gene, RIKEN cDNA 2010306G19 gene
575	3808	A1008643	i,v,General		20 100000 13 goile
576	3931	A1008697	l'	I	<u> </u>

1	21 18	HONOTOGAE VI	8.		'# Atty:Docket No.44921-5069W0
Seg, ID. No. : : : :	rolllineol	ConBook Aced Red: Seq. ID No.	Model Gode	Homologove Cence 4'.	Komologová Glýsler Kame
577	7785	Al008758	aa	dipeptidylpeptidase 4, dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2)	ESTs, Weakly similar to DPP4 MOUSE DIPEPTIDYL PEPTIDASE IV [M.musculus], ESTs, Weakly similar to DPP4 RAT DIPEPTIDYL PEPTIDASE IV [R.norvegicus], Homo sapiens chromosome 19, cosmid R26894, Homo sapiens, clone IMAGE:3447394, mRNA, partial cds, RIKEN cDNA 4932434F09 gene, dipeptidylpeptidase 4, dipeptidylpeptidase 6, dipeptidylpeptidase 8, fibroblast activation protein, fibroblast activation protein, alpha
578	21789	AI008930	k	·	EST, Moderately similar to CYSR RAT CYSTEINE-RICH PROTEIN 1 [R.norvegicus], ESTs, Weakly similar to S12658 cysteine-rich protein [H.sapiens], cysteine and glycine-rich protein 1, cysteine and glycine-rich protein 3 (cardiac LIM protein), cysteine rich protein, cysteine-rich protein 2, cysteine-rich protein 3, thymus LIM protein
580	21895	AI008971	General		
581	410	AI008974	i,aa,General		
582 583 584 585	21632 21596 22801 11876	Al009167 Al009168 Al009197 Al009321	General General General cc,General		BCL2-associated athanogene 2, ESTs, Highly similar to T08764 hypothetical protein DKFZp586C021.1 [H.sapiens]
586	2506	AI009341	General		
587	6382	A1009362	General		EST, Weakly similar to PRCF_HUMAN PROTEASOME COMPONENT MECL-1 PRECURSOR [H.sapiens], ESTS, Weakly similar to PRCF_HUMAN PROTEASOME COMPONENT MECL-1 PRECURSOR [H.sapiens], proteasome (prosome, macropain) subunit, beta type 10, proteasome (prosome, macropain) subunit, beta type 7, proteasome (prosome, macropain) subunit, beta type 7, proteasome (prosome, macropain) subunit, beta type, 10, proteasome (prosome, macropain)
588	14370	A1009427	k x		subunit, beta type, 7 EST, Moderately similar to ABP2_HUMAN ENDOTHELIAL ACTIN- BINDING PROTEIN [H.sapiens], ESTs, Moderately similar to ABP2_HUMAN ENDOTHELIAL ACTIN- BINDING PROTEIN [H.sapiens], filamin A, alpha (actin-binding protein- 280), filamin B, beta (actin-binding protein-278)
590	4154	AI009467	9		
591	3464	AI009589	СС		
592	3926	A1009592	θ		
593 594	19358 22545	AI009675 AI009747	g g	<del> </del>	
595	15089	AI009752	cc,General		
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				programmed cell death 6 interacting protein, programmed cell death 6-	EST, Moderately similar to T14756 hypothetical protein DKFZp564F0923.1 (H.sapiens], EST, Weakly similar to A28996 proline-rich protein M14 precursor - mouse (M.musculus), EST, Weakly similar to PRP4_HUMAN SALIVARY PROLINE-RICH PROTEIN PO PRECURSOR (H.sapiens), expressed sequence Al462446, poly(A)-binding protein, nuclear 1, proline rich protein, proline rich protein 2, proline-rich protein BstNI subfamily 4, protein tyrosine
596	5458	A1009756	h	interacting protein	phosphatase, non-receptor type 23
597	15627	Al009770	e,r,cc		EST Al317031, EST, Weakly similar to R3HU16 ribosomal protein S16, cytosolic [H.sapiens], expressed sequence AA420385, ribosomal protein S16
599	22619	Al009825	d		proton 010
600	7857	Al009898	j,l,m,z		
601	13259	Al009946	г		
602	21105	AI010067	General		
603	24627	Al010102	aa	testis enhanced gene transcript, testis enhanced gene transcript (BAX inhibitor 1)	CGI-119 protein, RIKEN cDNA 5031406P05 gene, testis enhanced gene transcript (BAX inhibitor 1)
604	12716	AI010102	General	initioner 1)	CGI-100 protein
605	18757	AI010216	aa		
					RIKEN cDNA 6720456116 gene,
606	2912	AI010220	aa,General		claudin 10, claudin 15, claudin 7
607	15644	Al010237	t General		ESTs, Highly similar to HISTONE H3.3 [R.norvegicus], H3 histone, family 3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B)
608	15044	Alu 10256	General .		colony stimulating factor 2 receptor, beta 1, low-affinity (granulocyte- macrophage), interleukin 4 receptor,
609	657	AI010262	ь		interleukin 4 receptor, alpha
610	3271	Al010303	b		
611	11081	AI010407	bb		
					DNA segment, Chr 3, ERATO Doi 555, expressed, EST, Highly similar to 1012298A factor VIIIC [H.sapiens], ESTs, Weakly similar to CERU MOUSE CERULOPLASMIN PRECURSOR [M.musculus], ESTs, Weakly similar to CERU RAT CERULOPLASMIN PRECURSOR [R.norvegicus], ESTs, Weakly similar to KUHU ferroxidase [H.sapiens], Hermansky-Pudlak syndrome 3,
				ceruloplasmin,	ceruloplasmin, ceruloplasmin
612	16521	AI010470	c,s,t,General	ceruloplasmin (ferroxidase)	
613	6927	AI010542	General		
614	17524	AI010568	a,j,y,General	growth hormone receptor	growth hormone receptor
615	6946	AI010642	in		RIKEN cDNA 2510028H01 gene,
616	23509	AI010962	aa		sorting nexin 2, sorting nexin 3
	6044	AI011285	10		
617	6044		ļ <b>`</b>		
617 618 619	13855 21779	AI011361 AI011380	o cc		

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Seq. (D). No.	lder(iiler	Cenbenk Ace <i>l</i> Rol Sec: ID No.	Model Code	Moc	Homologous Cluster Namo
622	12629	Al011492	e,f		HYA22 protein, conserved gene amplified in osteosarcoma, nuclear LIM interactor-interacting factor
623	735	AI011560	f		Homo sapiens, Similar to RIKEN cDNA 230002L21 gene, clone MGC:17528 IMAGE:345806, mRNA, complete cds, RIKEN cDNA 2300002L21 gene, S100 calcium-binding protein A12 (calgranulin C), S100 calcium-binding protein, beta (neural), S100 protein, beta polypeptide, neural
023	733	A1011300			ESTs, Moderately similar to 2113291A laminin:SUBUNIT, Usher syndrome 2A (autosomal recessive, mild) homolog (human), hypothetical protein, MGC:
624	3941	Al011598	General	<u> </u>	8159, laminin, alpha 5 butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetalne
625	17550	AI011607	i.General	•	hydroxylase) 1, epsilon-trimethyllysine hydroxylase
626	10636	AI011634	e		
627	3995	AI011678	General		
				·	FACTOR, ARGININE/SERINE-RICH 5 [R.norvegicus], Mus musculus, Similar to splicing factor, arginine/serine-rich 7 (35kD), clone MGC:6268 IMAGE:2646366, mRNA, complete cds, neural-salient serine/arginine-rich, splicing factor, arginine/serine-rich 3, splicing factor, arginine/serine-rich 3 (SRp20), splicing factor, arginine/serine-rich 5, splicing factor, arginine/serine-rich 5, splicing factor,
628	16112	AI011706	h		arginine/serine-rich 5 (SRp40, HRS) Fc fragment of IgG, high affinity Ia,
	42254	A1044757			receptor for (CD64), Fc fragment of IgG, low affinity Illa, receptor for (CD16), Fc fragment of IgG, low affinity Illb, receptor for (CD16), Fc receptor, IgG, low affinity Ill, expressed sequence BB219290
629 630	13354 12745	Al011757 Al011799	cc		expressed sequence DD219290
030	12745	AIO 1 17 9 9			DKFZP564O123 protein, putative
631	18684	AI011812	t		breast adenocarcinoma marker (32kD)
632	4205	AI011982	b		
					chromosome 1 open reading frame 25,
633	6518	AI012114	General		hypothetical protein FLJ20244
634	17407	Al012145	General		
635	13093	AI012177	r		FK506 binding protein 4 (59 kDa), FK506 binding protein 8 (38 kDa), FK506-binding protein 4 (59kD), FK506-binding protein 6 (36kD), FK506-binding protein like, RIKEN cDNA 2210019E14 gene
		·			Fas-associated factor 1, ORF, RIKEN cDNA 2210404D11 gene, UBX domain containing 2, expressed sequence AA408698, expressed sequence AI196514, putative glialblastoma cell
636	15395	AI012216	[f	I	differentiation-related

TABLES		KOWO POGĄĘ ŚW	WOLVELLOW		Ally, Docket No. 44921-500000 Doc. No. 1793997.1
Seq.(ID:	77.48	Condonk Ace <i>l</i> Rei Seg ID No.	Model Gode	Homologous Cono Namo	
637	21796	Al012221 Al012235	d,General i,General		EST X83352, ESTs, Highly similar to T17226 hypothetical protein DKFZp566G223.1 [H.sapiens], Homo sapiens, Similar to chloride intracellular channel 4, clone MGC:8812 IMAGE:3861372, mRNA, complete cds, RIKEN cDNA 5730531E12 gene, chloride intracellular channel 1, chloride intracellular channel 4, chloride intracellular channel 4 (mitochondrial), hypothetical protein DKFZp434N127, intracellular chloride ion channel protein p64H1
638	3981	AI012338	i,r		
639	6606				ESTs, Weakly similar to NHPX RAT NHP2/RS6 FAMILY PROTEIN YEL026W HOMOLOG [R.norvegicus], RIKEN cDNA 2410130M07 gene, non-histone chromosome protein 2 (S. cerevisiae)-like 1, nucleolar protein family A, member 2 (H/ACA small nucleolar RNPs), sperm specific
640	3417	AI012337	W		antigen 1
641	24200	AI012356	b,t,General		<del>                                     </del>
642	7471	AI012379	<u>cc</u>		<del></del>
643	7247	Al012438	9		<del> </del>
644	7127	AI012464	p,General		<del> </del>
645	3304	AI012471	b		
646	2311	AI012485	aa		
647	20817	AI012589	g,n,q		
648	3493	Al012590	v,General		<del></del>
649	8975	AI012613	General		
650	11335	Al012619	Ų		ļ
651	21409	AI012637	General		
652 653	8476	AI012638	w		EST, Weakly similar to S33710 ribosomal protein S20, cytosolic [H.sapiens], Mus musculus, Similar to ribosomal protein S20, clone MGC:6876 IMAGE:2651405, mRNA, complete cds, expressed sequence AL024076
654	4232	AI012958	e.p.General		<u> </u>
655	23128	AI013011	General	<u> </u>	<u> </u>
656	20086	AI013260	General		ESTs, Highly similar to A26061 gliaderived neurite promoting factor precursor [H.sapiens], ESTs, Highly similar to A27496 glia-derived nexin I alpha precursor [H.sapiens], ESTs, Weakly similar to GLIA DERIVED NEXIN PRECURSOR [R.norvegicus], serine (or cysteine) proteinase
657 658	11969 26147	AI013273 AI013387	k aa		inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2, serine (or cysteine) proteinase inhibitor, clade I (neuroserpin), member 1
659	8815	AI013437	р		
660	19722	AI013508	k		
661	6674	AI013568	General		
662	23145	AI013647	o,t		
663	15130	AI013676	w		

TABLES		HOWO FOOM SY	NOTATIONS	· 中华	Atty, Docket No. 44921-5039W0 Doc, No. 1798397.1
Seq. [D., Noswi	(Centifier)	Conenit Ace <i>l</i> Ref. Seq. ID No.	Model Gode at	Honologous Conda Namo	Konologova Avalar Namo
. 664	7274	Al013715	aa		Bone morphogenetic protein 6, bone morphogenetic protein 5, bone morphogenetic protein 6, bone morphogenetic protein 7, bone morphogenetic protein 7 (osteogenic protein 1), growth differentiation factor 15
665	7276	AI013730	е		
666	7278	AI013738	y,z,aa		
667	22592	AI013740	s,x,bb,General		ESTs, Weakly similar to S32567 A4 protein [H.sapiens], Homo sapiens, Similar to RIKEN cDNA 2900052H21 gene, clone MGC:21625 IMAGE:4214683, mRNA, complete cds, Homo sapiens, clone MGC:19762 IMAGE:3636045, mRNA, complete cds, proteolipid protein 2 (colonic epithelium-enriched)
668	16584	Al013765	w		Mus musculus retinal cone arrestin 3 (Arr3) mRNA, complete cds, RIKEN cDNA 1200006117 gene, arrestin, beta 2, expressed sequence Al326910, retinal S-antigen
669	24143	Al013703	j.i		The state of the s
670	15928	Al013829	a,General		
	21950	Al013861	j		3-hydroxyisobutyrate dehydrogenase, ESTs, Highly similar to D3HI_HUMAN 3-HYDROXYISOBUTYRATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR (HIBADH) [H.sapiens], cytokine-like nuclear factor n-pac
672	3260	AI013875	t .		
	2708	AI013882	d,q		
	8585	AI013886	1		
675 676	7299 15904	Al013911 Al013971	p.r.t.General General	ē	H.sapiens PABII pseudogene, Human DNA sequence from PAC 560B9 on chromosome 1q24-1q25. Contains profilin-like pseudogene, 60S ribosomal protein L4 pseudogene RNA binding protein, ESTs, GSS, Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310074E15, full insert sequence, RNA binding motif protein 3, RNA binding motif protein, X chromosome, RNA binding motif protein, X chromosome retrogene, cold inducible RNA-binding protein, testespecific heterogenous nuclear ribonucleoprotein G-T
010	10304		Jeneral .		EST Moderately similar to
677	12781	Al014023	w	beta-carotene 15, 15'-	EST, Moderately similar to Y124_HUMAN HYPOTHETICAL PROTEIN KIAA0124 [H.sapiens], block of proliferation 1 EST, Moderately similar to 0806162D
				dioxygenase, beta- carotene 15,15'-	protein COII [M.musculus], EST, Weakly similar to 810024D cytochrome
678 679	19372 4241	AI014135	aa w	dioxygenase	oxidase II [H.sapiens] DKFZP564A2416 protein, EST, Moderately similar to T14738 hypothetical protein DKFZp564A2416.1 [H.sapiens], Homo sapiens cDNA FLJ14138 fis, clone MAMMA1002765, hypothetical protein FLJ13117

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Sog. (D) No. 34	(Vertifier	Cineant Ace./: Rol Son ID No.:	Modd Codd	Manclogore Cara A	Ronologous Cluster Kama
680	15247	Al014169	C,U		Homo sapiens cDNA: FLJ22783 fis, clone KAIA1993, Homo sapiens mRNA; cDNA DKFZp434B102 (from clone DKFZp434B102), KIAA1376 protein, expressed sequence AV216361, upregulated by 1,25-dihydroxyvitamin D-3
681	7315	Al028831	,		ESTs, Highty similar to JE0363 mitogen-activated protein kinase kinase kinase [H.sapiens], mitogen activated protein kinase kinase kinase 5, mitogen-activated protein kinase kinase kinase kinase
582	16631	AI028856	General		
683	23297	AI028953	x		ESTs, Moderately similar to RUXG_HUMAN SMALL NUCLEAR RIBONUCLEOPROTEIN G [H.sapiens], small nuclear ribonucleoprotein polypeptide G
684	11326	AI029015	b		
685	2866	AI029058	n.y		
586	12812	AI029126	General		
687	17602	AI029156	р		
688	7392	AI029185	aa		
689	6517	AI029264	d,k,x		
690	7639	A1029292	<u>b</u>		ESTs, Moderately similar to CB80_HUMAN 80 KDA NUCLEAR CAP BINDING PROTEIN [H.sapiens] Homo sapiens cDNA FLJ11599 fis, clone HEMBA1003879, nuclear cap
591	3874	AI029428	i,General		binding protein subunit 1, 80kD
692	12819	AI029437	f		
<b>593</b>	7452	AI029466	r		
694	7493	AI029608	b		
596	7537	AI029829	o,General		
697	2310	AI029969	V		
698	7585	AI030023	χ		
699	7586	AI030024	b,n		
700	14492	Al030091	oc	·	
701	10673	Al030134			EST, Weakly similar to 1605244A erythrocyte ankyrin [H.sapiens], ESTs Weakly similar to S68418 protein phosphatase 1M chain M110 isoform rat [R.norvegicus], Human DNA sequence from clone RP11-196N14 ochromosome 20 Contains ESTs, STSs, GSSs and CpG Islands. Contains three novel genes, part of a gene for a novel protein similar to protein serine/threonine phosphatase 4 regulatory subunit 1 (PP4R1) and a gene for a novel protein with an ankyrin domain, RIKEN cDNA 1110058D09 gene, RIKEN cDNA 110058D09 gene, RIKEN cDNA 4930539L19 gene, expressed sequence AA408090, hypothetical protein MGC5540, leukocyte receptor cluster (LRC) member 3, myosin phosphatase 1, regulatory (inhibitor) subunit 12A, testis-specific ankyrin motif containing protein
702	7615	AI030163	0,0		
	2370	Al030179	General	<del> </del>	<del> </del>
703		I CIUSU I I S			

	4.5		EX.		Airy, Docici No. 44231-6033000 Doc. No. 17933371.
Seq. (D) No. :	ideallier	GenBank Accili Rel Seq. ID No.	Model Code 🛧	Monologous Cono Nemo	Momologous Gustar Nama , 12
705	11559	Al030472	General		ESTs, Highly similar to 2008109A set gene [R.norvegicus], ESTs, Highly similar to SET_HUMAN SET PROTEIN
706	7665	A1030668	t,bb	nucleosome assembly protein 1-like 1	[H.sapiens], SET translocation, SET translocation (myeloid leukemia-associated), nucleosome assembly protein 1-like 1, nucleosome assembly protein 1-like 2, nucleosome assembly protein 1-like 4
707	24222	AI030704	k	<u> </u>	
708	10740	A1030743	h		
709	10742	A1030773	e		RIKEN cDNA 1300012C15 gene, RIKEN cDNA 2310076L09 gene, adipose differentiation related protein,
711	16169	A1030932	General		adipose differentiation-related protein
712	19527	A1030991	1		
713	22614	A1031004	r		
					ClpP (caseinolytic protease, ATP- dependent, proteolytic subunit, E. coli) homolog, caseinolytic protease, ATP- dependent, proteolytic subunit homolog (E. coli)
714	3167 5350	AI031012 AI043611	е		momolog (E. Wil)
715			a	[· · · · · · · · · · · · · · · · · · ·	
716	7858	AI043654	t		
717 718	10784 9180	AI043678 AI043694	d aa		
719 720	7867 7584	AI043695 AI043724	aa General		ESTs, Highly similar to PUR1_HUMAN AMIDOPHOSPHORIBOSYLTRANSFE RASE PRECURSOR [H.sapiens], ESTs, Moderately similar to PUR1_HUMAN AMIDOPHOSPHORIBOSYLTRANSFE RASE PRECURSOR [H.sapiens], RIKEN cDNA 5730454C12 gene, expressed sequence AA675351, expressed sequence A79945, glutamine fructose-6-phosphate transaminase 2, glutamine-fructose-6-phosphate transaminase 2, phosphoribosyl pyrophosphate amidotransferase
721	7895	AI043768	е		
723	7903	AI043849	General		ELL-RELATED RNA POLYMERASE II, ELONGATION FACTOR, ESTS, Highly similar to ELL2, HUMAN RNA POLYMERASE II ELONGATION FACTOR ELL2 [H.sapiens], ESTS, Weakly similar to ELL MOUSE RNA POLYMERASE II ELONGATION FACTOR ELL [M.musculus], ESTS, Weakly similar to ELL2, HUMAN RNA POLYMERASE II ELONGATION FACTOR ELL2 [H.sapiens], Mus musculus, clone IMAGE:3583970, mRNA, partial cds, Mus musculus, clone MGC:11987 IMAGE:3601737, mRNA, complete cds, eleven-nineteen lysine-rich leukemia gene, hypothetical protein FLJ22637
724	3899	AI043904	1		
725	6766	AI043914	lf		
726	10818	AI043990	g,I,m,General		
727	7956	AI044018			i

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	1 45 45	March Accel	1	المعتبر المتحاصية	Ede Ko 1/9099/6
yer e. Sin m.	n na mark	ConBent; Acc./ Ref. Seq. (D No:	Madal Gada	Homologova Gine * 4 Nama	Considerates (Australia Maria)
728	5393	AI044170	Р		15.54
729	5398	AI044177			<del> </del>
729	5398	A1044177	q		EST, Weakly similar to S59856 collagen alpha 1(III) chain precursor - mouse [M.musculus], ESTs, Weakly similar to S59856 collagen alpha 1(III) chain precursor - mouse [M.musculus Homo sapiens, Similar to hypothetical protein FLJ20783, clone MGC:1005 IMAGE:3139876, mRNA, complete cds, expressed sequence AW122071 hypothetical protein FLJ10355,
					procollagen, type XIX, alpha 1, sequence-specific single-stranded- DNA-binding protein, single-stranded
730 731 732 733 734	8692 5430 5461 5464	AI044247 AI044253 AI044338 AI044345	a,d r i g,p,General i	·	DNA-binding protein 2 2,4-dienoyl CoA reductase 1, mitochondrial, 2,4-dienoyl CoA reductase 2, peroxisomal, ESTs, Weakly similar to LUNG CARBONYL REDUCTASE [M.musculus], ESTs, Weakly similar to S11021 2,4-dienoyl- CoA reductase [R.norvegicus], FabG (beta-ketoacyl-[acyl-carrier-protein] reductase, E coli) like, Homo sapiens AS10 protein mRNA, partial cds, RIKEN cDNA 1200012F07 gene, RIKEN cDNA 1810027P18 gene, carbonyl reductase, carbonyl reductase 2, oxidoreductase UCPA
737	2695	A1044396	b	·	EST, Moderately similar to IL6B_HUMAN INTERLEUKIN-6 RECEPTOR BETA CHAIN PRECURSOR [H.sapiens], colony stimulating factor 3 receptor (granulocyte), cytokine receptor-like factor 1, interleukin 12 receptor, beta 2, interleukin 6 signal transducer, interleukin 6 signal transducer (gp130 oncostatin M receptor)
738	5494	AI044425	General		
740	9882	A1044588	j,m		
741	5575	AI044688	9		
742	2348	AI044794	General		

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809. ID 808. 11-1	le le million	Cinenk Acel Ref. Seq. ID No.	Model (code	Homologova Gano Namo:	Dec. No. 1779397.1 Kontolegova Givater Kamo
					EST, Moderately similar to JH0148 nucleolin - rat [R.norvegicus], EST, Moderately similar to RBMB_HUMAN PUTATIVE RNA-BINDING PROTEIN 8 [H.sapiens], EST, Weakly similar to NUCL_HUMAN NUCLEOLIN [H.sapiens], ESTs, Highly similar to FUS_HUMAN RNA-BINDING PROTEIN FUS [H.sapiens], ESTs, Highly similar to RBMB_HUMAN PUTATIVE RNA-BINDING PROTEIN 8 [H.sapiens], ESTs, Moderately similar to RBM8_HUMAN PUTATIVE RNA-BINDING PROTEIN 8 [H.sapiens], Mus musculus pigpen protein mRNA, complete cds, RNA binding motif protein 8A, TATA box binding protein (TBP)-associated factor, RNA polymerase II, N, 68kD (RNA-binding protein 56), fusion, derived from
743	18205	AI044836	n '		t(12;16) malignant liposarcoma
744	5626	A1044864	u		
745	5630	AI044869	f		
746	5634	AI044883	General		
747	4047	AI044947	I,m		
748	5654	AI044976	w		
749	5684	AI045056	r		
750	19235	A1045074	General		ESTs, Highly similar to BGAL MOUSE BETA-GALACTOSIDASE PRECURSOR [M.musculus], ESTs, Weakly similar to BGAL MOUSE BETA GALACTOSIDASE PRECURSOR [M.musculus], Homo sapiens, clone IMAGE:3502329, mRNA, partial cds, Homo sapiens, clone IMAGE:3938286, mRNA, partial cds, RIKEN cDNA 4833408P15 gene, galactosidase, beta 1
751	5689	AI045075	i,aa,General		
					ESTs, Weakly similar to MCAT_HUMAN MITOCHONDRIAL CARNITINE/ACYLCARNITINE CARRIER PROTEIN [H.sapiens], expressed sequence AW108044, solute carrier family 25 (camitine/acylcamitine translocase), member 20, solute carrier family 25 (mitochondrial camitine/acylcamitine translocase), member 20, solute translocase), member 20, solute translocase), member 20, solute translocase), member 10 (mitochondrial carrier; adenine nucleotide translocator), member 10, solute carrier family 25 (mitochondrial carrier; omithine transporter), member 15, uncoupling protein 2 (mitochondrial, proton
752	6711	A1045151	Gonomi		carrier), uncoupling protein 2,
752	5711	AI045151	General		mitochondrial

TABLES	e inānwa	HOWOFOGA'E VI	NOVATIONS		Ally: Postol No. 44971-5039W Dos. No. 1745397.
Sog. (D).	Marillor Menillor	GenBank Acc./ Ref. Seg. ID No.	Modal (600a)	Keme 4 Come 1	Homologeus Gluster Nama
					ESTs, Moderately similar to K6B2_MOUSE RIBOSOMAL PROTEIN S6 KINASE BETA 2 (S6K-BETA 2) (70 KDA RIBOSOMAL PROTEIN S6 KINASE 2) (P70-S6KB) (P70 RIBOSOMAL S6 KINASE BETA (P70 S6KBETA) (S6K2) [M.musculus] NIMA (never in mitosis gene a)-relate expressed kinase 3, RIKEN cDNA 2610318115 gene, expressed sequence Al256796, expressed sequence AW319595, ribosomal protein S6 kinase, 70kD, polypeptide
753	19237	AI045153	C .	· · · · · · · · · · · · · · · · · · ·	2, serine/threonine kinase 5
754 755	9964 5735	AI045161 AI045223	ļ <del>'</del>	<del></del>	
755 756	5474	AI045223	a,General		
757	5811	AI045502	d,e	<del> </del>	<del> </del>
75 <b>8</b>	5819	AI045537	General	<del> </del>	
759	5839	AI045594	i		<u> </u>
	F			†	TRAM-like protein, translocating chain
760	6808	AI045600	s		associating membrane protein
761	17755	AI045608	У		
763	10020	AI045632	a		
764	5855	A1045669	General		
765	5881	AI045789	i		B aggressive lymphoma gene, DKFZP434J214 protein, KIAA1268 protein KIAA0138 gene product, hypothetical
	•				protein FLJ13213, scaffold attachment
766	5897	AI045862	General		factor B
767	5900	AI045866	y,z		
768	7540	AI045882	o,t,General		EST, Weakly similar to C29149 proline rich protein - mouse [M.musculus], ESTs, Weakly similar to C29149 proline-rich protein - mouse [M.musculus], KIAA0999 protein, Mouse 31-kDa proline-rich salivary protein, complete cds of clone pUMP125, Mus musculus, Similar to proline-rich protein BstNI subfamily 2, clone MGC:18611 IMAGE:4165240, mRNA, complete cds, RIKEN cDNA 6030468B19 gene, Rattus norvegicus proline-rich proteinglycan (PRPG2) mRNA, complete cds, proline-rich protein HaeIII subfamily 2
769	5329	Al045970	p		
770	15093	AI058285	d		
771	8002	AI058304	1		
772	8017	AI058341	С		Cde42 offector protein 2 Cde42
773	6828	AI058359	General		Cdc42 effector protein 2, Cdc42 effector protein 3
774	8177	AI058603	aa	<del> </del>	
775	3090	AI058730	aa		
776	10093	AI058746	9		
777	8143	AI058759	General		
778	18659	AI058762	f		
779	8163	AI058837	aa		
780	4789	AI058889	General		
781	8221	AI059061	General		
782	10159	AI059147	d	1	

10	<u>,                                    </u>	<u>Homorogás</u> V			74 ANY DOCKEN No. 44921-508900 DOC. No. 1753897.1
Seg. ID Lo. ** :	ldomillor	ConBank Aced Rol Seq. (D No.	Model Gode	Homologous Cono Namo	Klonologove Givelet Neme
					EST, Weakly similar to GBLP_HUMAN GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN 12.3 [H.sapiens], Homo sapiens mRNA for FLJ00083 protein, partial cds, IRA1 protein, Rattus norvegicus Sprague Dawley protein kinase C receptor mRNA, complete cds, WD repeat domain 5, expressed sequence AL033335, hypothetical
783	8245	AI059154	Ь		protein, recombination protein REC14
784	8283	AI059290	n		
785	8314	AI059386	g,General		
786	10200	AI059444	i		
		Alororio			DKFZP566D213 protein, EST, Moderately similar to EPIDERMAL GROWTH FACTOR PRECURSOR [M.musculus], ESTs, Weakly similar to mel [M.musculus], Epidermal growth factor, epidermal growth factor, epidermal growth factor, epidermal growth factor (beta- urogastrone), hypothetical protein MGC11256, nel-like 2 homolog
787	8347	AI059519	s		(chicken) EST, Highly similar to TERA HUMAN
788	18359	A1059675	c		[H.sapiens], EST, Weakly similar to T46437 hypothetical protein DKFZp434K0126.1 [H.sapiens], ESTs, Weakly similar to T46437 hypothetical protein DKFZp434K0126.1 [H.sapiens], ESTs, Weakly similar to TERA HUMAN [H.sapiens], ESTs, Weakly similar to TERA RAT TRANSITIONAL ENDOPLASMIC RETICULUM ATPASE [R.norveglcus], RIKEN cDNA 4833413G10 gene, RIKEN cDNA 5430414H02 gene, spermatogenesis associated factor, valosin containing protein, valosin-containing protein
789	10281	AI059947	b,t		
790 791	8494	A1059968	General		Homo sapiens (clone NCD18) tumor necrosis factor receptor related protein mRNA, complete exon and repeat region, lymphotoxin B receptor, lymphotoxin beta receptor (TNFR superfamily, member 3), tumor necrosis factor receptor superfamily, member 8
792	8496	AI059974	General		KIAA1685 protein, KIAA1713 protein
793	10289	AI060053	i		CGI-142, RIKEN cDNA 3930401K13 gene
794	8548	AI060176	k		
795	8565	AI060236	t		
796	18322	AI060279	i.y,z		
797 798	8745 8785	AI070067	0		IK cytokine, down-regulator of HLA II, Mus musculus, Similar to IK cytokine, down-regulator of HLA II, clone MGC:25508 IMAGE:4920184, mRNA, complete cds growth arrest and DNA-damage-
799	17506	A1070068	cc		growth arrest and DNA-damage- inducible 45 beta, growth arrest and DNA-damage-inducible, alpha, growth arrest and DNA-damage-inducible, beta

134	was rocker of	KONOTOGAE V	ZKOTATOKE.		Ally, Dock at No. 44924-506900 Doc, No. 1793397.
		Genlenk Acc./ Ref. Seq. ID No.	Model Gode :	Homologous Como Namo	Honologous Cluster Namo
					ESTs, Highly similar to NUCL_HUMAI NUCLEOLIN [H.sapiens], Nucleolin, RIKEN cDNA 0610010A22 gene, eukaryotic translation Initiation factor 3, subunit 4 (delta, 44 kDa), eukaryotic
800	9067	AI070087	General		translation initiation factor 3, subunit 4 (delta, 44kD), nucleolin
801	3551	AI070122	e		CGI-97 protein, EST, Weakly similar to YC97_HUMAN HYPOTHETICAL PROTEIN CGI-97 [H.sapiens], RIKEN cDNA 4733401P19 gene
802	4967	AI070179	k		glia maturation factor, gamma
803	18	AI070175	General		CGI-20 protein
		-			armadillo repeat gene deletes in velocardiofacial syndrome, catenin (cadherin-associated protein), delta 1, catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-
804	24197	AI070314	General		repeat protein), plakophilin 4
805	8869	A1070330	h aa		<del></del>
806	8874	A1070336	b,cc		<del> </del>
807	10417	AI070410	m		toll-like receptor 1, toll-like receptor 10,
000	800+	A1070440			toll-like receptor 1, toll-like receptor 10,
808 809	8901 14424	AI070419	la Connel	· · · · · · · · · · · · · · · · · · ·	toir-like receptor 2, toir-like receptor 6
		AI070421	I,p,General General		<del> </del>
810 811	10434 8927	AI070497	v		<del> </del>
812	8946	AI070523 AI070611			<del>                                     </del>
813	8950	AI070621	q w		<del>                                     </del>
814	8972	AI070621	General	<del></del>	<del> </del>
815	8981	AI070673	bb	<del>-</del>	<del> </del>
816	26184	A1070784	ř.		ESTs, Highly similar to 149636 DNA-binding protein - mouse [M.musculus], ESTs, Moderately similar to 149636 DNA-binding protein - mouse [M.musculus], ESTs, Weakly similar to B57785 zinc finger protein ZNF136 [H.sapiens], ESTs, Weakly similar to OZF HUMAN ZINC FINGER PROTEIN OZF [H.sapiens], Homo sapiens, Similar to zinc finger protein 136 (clone pHZ-20), clone MGC: 10647 IMAGE:4053041, mRNA, complete cds, RIKEN cDNA 2310011F05 gene, pancreas zinc finger protein, zinc finger protein 136 (clone pHZ-20), zinc finger protein 260, zinc finger protein 63, zinc finger protein 97  DKFZP564F0522 protein, ESTs, Weakly similar to T08675 hypothetical
817	3007	AI070824	w		protein DKFZp564F0522.1 [H.sapiens]
818	8999	A1070839	P		
819 820	10477 24301	A1070868 A1070911	e.f		ESTs, Highly similar to NRP2_RAT NEUROPILIN-2 PRECURSOR (VASCULAR ENDOTHELIAL CELL GROWTH FACTOR 165 RECEPTOR 2) [R.norvegicus], neuropilin 2, neuropilin-2, platelet derived growth factor C
821	8721	AI071024	General		
822	9212	AI071098	х		
823	1831	AI071137	c		cell division cycle 25 homolog B (S. cerevisiae), cell division cycle 25 homolog C (S. cerevisiae), cell division cycle 25B, cell division cycle 25C, expressed sequence Al604853

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839, ID No:	e dinoi	ConBonk Ace./ Rel. Seq. (D No.	් රෝල්ම්ම්මේ	Homologous Gaile Cours	Moniologous Civister Nama
824	11005	AI071139	r ·		
					ESTs, Highly similar to ROG_HUMAN HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G [H.sapiens], Homo sapiens, Similar to RNA binding motif protein, X chromosome, clone MGC:9398 IMAGE:3875565, mRNA, complete cds, RIKEN cDNA 1700012H05 gene, RNA binding motif protein, X chromosome, RNA binding motif protein, X chromosome retrogene, RNA binding motif protein, Y chromosome, family 1, member A1, testes-specific heterogenous nuclear inbonucleoprotein G-T
825	9104	AI071173	j,m Conoral		Inbonucieoprotein G-1
826	9583	AI071185	General		
827	9644	AI071410	С	<u> </u>	serine palmitoyltransferase, long chain
828	16058	AI071490	General		base subunit 2
829	11057_	AI071509	1,0		
831	5695	AI071566	bb		
832	9671	AI071568	w		
833	22929	AI071578	General		DNA segment, human D4S114, P311 protein
834	9673	AI071581	General	<del></del>	p.0.0
835	9699	AI071646	General		
837	9799	AI072008	q,y,z		
838	9808	AI072050	d	<del></del>	
839	22796	AI072213	General		
840	9271	AI072405	v		
841	10869	AI072425	w		
*			0		EST X83352, ESTs, Highly similar to T17226 hypothetical protein DKFZp566G223.1 [H.sapiens], Homo sapiens, Similar to chloride intracellular channel 4, clone MGC:8812 IMAGE:3861372, mRNA, complete cds, RIKEN cDNA 5730531E12 gene, chloride intracellular channel 1, chloride intracellular channel 4, chloride intracellular channel 4 (mitochondrial), hypothetical protein DKFZp434N127, intracellular chloride ion channel
842	21797	AI072439	General		protein p64H1
	9306	A1072521	<u>r</u>	<del></del>	<del></del>
	9312	A1072550	<u> </u>	<del></del>	
845	10893	A1072559	X Consmi		<del> </del>
846	1501	AI072634	cc,General	ļ	<del></del>
847	6548	A1072658	General		DnaJ (Hsp40) homolog, subfamily C, member 4, Homo sapiens, clone MGC:19482 IMAGE:4309314, mRNA, complete cds, hypothetical protein
848	9363	AI072695	d	<del> </del>	FLJ11506
850	9409	AI072841	n	· · · · · · · · · · · · · · · · · · ·	
851	9410	AI072842	W General		
852 853	9468 9518	A1073021 A1073223	General	<del> </del>	
854	11183	Al100768	t		EST, Moderately similar to CARBONIC ANHYDRASE II [R.norvegicus], carbonic anhydrase 2, carbonic anhydrase II, carbonic anhydrase VIII, carbonic anhydrase-like sequence 1
		AI100835	е	<del></del>	

TABLES	KILIMANI	KOMOLOGUE AK	EKONATOKI		: Ally, Docket No. 44221-51091/0
1		,, 	100	1	Dec. No. 1758697.1
Sog. ID.: No. 434	rofillicon)	Condenis Aced Roi. Seq. ID Noi	Model Code	Honologous Coro	Honologous Cluster Name
856	2029	AI100842	р		
857	5687	Al101006	e		
-					ESTs, Moderately similar to AF078844 1 hqp0376 protein [H.sapiens],
858	15192	AI101099	g.cc		expressed sequence AA409533
859	17399	Al101157	0		ATP synthase, H+ transporting, mitochondrial F0 complex, subunit f, isoform 2, EST, Weakly similar to ATPK_HUMAN ATP SYNTHASE F CHAIN, MITOCHONDRIAL [H.sapiens], ESTs, Highly similar to ATPK_HUMAN ATP SYNTHASE F CHAIN, MITOCHONDRIAL [H.sapiens]
860	9339	Al101160	I,m,o		
					ESTs, Moderately similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN C [R.norvegicus], Mus musculus high-glycine/lyrosine protein type I E5 mRNA, complete cds, RNA binding protein p45AUF1, expressed sequence C85084, heterogeneous nuclear ribonucleoprotein A/B, heterogeneous nuclear ribonucleoprotein D, heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA-binding protein 1, 37kD),
				1	haterogeneous nuclear
861	6321	Al101256	General		ribonucleoprotein D-like
050	5404	A1404070			Rho GDP dissociation inhibitor (GDI) beta, expressed sequence C87222, rho, GDP dissociation inhibitor (GDI) beta
862	5421	AI101270	C		ets variant gene 5 (ets-related
863	11910	Al101323	General	·	molecule)
864	23140	AI101608	е		•
865	4119	Al101901	General		
866	16324	Al102009	b		
867	18642	AI102023	0		brain-specific membrane-anchored protein, chromosome 1 open reading frame 8
868	19373	Al102044	а	beta-carotene 15, 15'- dioxygenase, beta- carotene 15,15'- dioxygenase, frizzled (Drosophila) homolog 1, frizzled homolog 1, (Drosophila)	EST, Moderately similar to 0806162D protein COII [M.musculus], EST, Weakly similar to 810024D cytochrome oxidase II [H.sapiens]
869	7051	Al102055	h		ESTs, Highly similar to 2013348A Ser kinase SRPK1 [H.sapiens], Mus musculus 13 days embryo head cDNA, RIKEN full-length enriched library, clone:3110005M20, full insert sequence, Mus musculus adult male lung cDNA, RIKEN full-length enriched library, clone:1200011B22, full insert sequence, SFRS protein kinase 1, SFRS protein kinase 2, serine/arginine-rich protein specific kinase 2, serine/threonine kinase 23
870	6544	AI102055	c		John Sandoninio Milado Ed
871	10227	AI102064 AI102248	w		
872	23849	AI102248	e,q		
873	11954	AI102505	g.j.s		· · · · · · · · · · · · · · · · · · ·
T	<del></del>		M.4		TYRO protein tyrosine kinase binding
874	2125	Al102519	c,k		protein

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	<b>全人</b> 等。	, -			Dos. No. 1799397.1
Seq.[D: No`'*	ldentifier	GenBenk Acc./.· Ref. Seq. (D No.	Model Gode	Homologous General Name 4	Konologova Civalar Nama
		·			ESTs, Weakly similar to GEF2_HUMAN GANGLIOSIDE EXPRESSION FACTOR 2 [R.norvegicus], GABA(A) receptor- associated protein-like 2, RIKEN cDNA 0610012F20 gene, ganglioside
875	5967	AI102520	ly		expression factor 2
875	5969	Al102520	p,w		ESTs, Weakly similar to GEF2_HUMAN GANGLIOSIDE EXPRESSION FACTOR 2 [R.norvegicus], GABA(A) receptor- associated protein-like 2, RIKEN cDNA 0610012F20 gene, gamma- aminobutyric acid (GABA(A)) receptor- associated protein-like 1, ganglioside expression factor 2
876	11563	AI102560	General		
877	15190	Al102562	b,g,n.p,v		EST, Moderately similar to Cd-7 Metallothionein-2 [H.sapiens], EST, Moderately similar to SMHU1E metallothionein 1E [H.sapiens]
878	19769	Al102570	bb		EST, Highly similar to 149523 Mouse
879	22487	AI102578	General		primary response gene B94 mRNA, 3'end - mouse [M.musculus], Homo sapiens, clone MGC:16332 IMAGE:3842543, mRNA, complete cds, RIKEN cDNA 1200009106 gene, RIKEN cDNA 1600013K19 gene, similar to S. cerevisiae Sec6p and R. norvegicus rsec6, tumor necrosis factor, alpha-induced protein 2
880	19011	AI102618	General		
881	23837	AI102620	q,t		
882	23538	Al102727	g,General		solute carrier family 20 (phosphate transporter), member 1, solute carrier family 20 (phosphate transporter), member 2, solute carrier family 20, member 1, solute carrier family 20, member 2
883	17234	Al102741	c	tissue inhibitor of metalloproteinase 3, tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory)	tissue inhibitor of metalloproteinase 3, tlssue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory)
884	5891	AI102745	k		
885	6796	AI102753	General		
886 887	8837 15861	AI102849 AI102868	o,p	<del></del>	phosphoserine aminotransferase
888	3533	AI102868 AI102877	g ·		риозриозсина анилоналывназа
889	13222	Al102977	General		
890	6806	AI103018	o,u		
891	10659	Al103059	w,cc,General		
					ATP synthase, H+ transporting, mitochondrial F0 complex, subunit f, isoform 2, EST, Weakly similar to ATPK_HUMAN ATP SYNTHASE F CHAIN, MITOCHONDRIAL [H.sapiens], ESTs, Highly similar to
892	17400	Al103097	е	,	ATPK_HUMAN ATP SYNTHASE F CHAIN, MITOCHONDRIAL [H.sapiens]
892 893	17400 3584	Al103097 Al103106	e x,aa		

TABLES	e HUMAN	<u> HOVOTÕGAEV</u>	ROTATOKS		# <b>Al</b> iy: Docket No. 44921-500000 Doc. No. 17703697.1
Sogald. No.	oca Idenliifer	ConBank, Aced . Rel Segi ID No.:	Model Gode	Komologous Goio Nemo	
					ESTs, Highly similar to S17516 hypothetical protein [H.saplens], ESTs, Highly similar to UBIQUITIN-CONJUGATING ENZYME E2-17 KD [R.norvegicus], RIKEN cDNA 1110015A16 gene, RIKEN cDNA 2610301N02 gene, expressed sequence Al327276, ubiquitin conjugating enzyme E2A (RAD6 homolog), ubiquitin-conjugating enzyme E2B (RAD6 homolog), ubiquitin-conjugating enzyme E2B (RAD6 homology), ubiquitin-conjugating enzyme E2B (RAD6 homology), ubiquitin-conjugating enzyme E2B (RAD6 homology), ubiquitin-conjugating enzyme E2B (RAD6 homology), ubiquitin-conjugating enzyme E2C, ubiquitin-
895	15981	Al103150	i,x		conjugating enzyme E2G 2
896	3475	AI103245	w		
898	23619	AI103314	Р		
899	24181	AI103320	θ		
901	4355	Al103410	General		
902	7622	Al103472	General		
903	20918	AI103552	n		
904	21579	AI103572	General		
905	2222	AI103631	0		
906	2752	Al103641	e		
907	4856	Al103708	I		
908	8990	Al103719	l,m,y,z		
909	15942	AI103738	r - Canada		
910	22885	AI103828	e,General		<del></del>
91 <b>1</b>	15853	Al103841	<b>x</b>	complement component 4 (within H-2S), complement component 4B	EST, Weakly similar to complement component C4A [H.sapiens]
912	15050	Al103911			EST, Moderately similar to UCRI RAT UBIQUINOL-CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT, MITOCHONDRIAL PRECURSOR [R.norvegicus], EST, Weakly similar to UCRI_HUMAN UBIQUINOL-CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT, MITOCHONDRIAL PRECURSOR [H.sapiens], ESTs, Moderately similar to UCRI_HUMAN UBIQUINOL-CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT. MITOCHONDRIAL PRECURSOR [H.sapiens], Human DNA sequence from clone RP1-228J4 on chromosome 6 Contains a pseudogene similar to UQCRFS1 (ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1), ESTs, an STS and GSSs, RIKEN cDNA 4430402G14 gene, expressed sequence Al875505, ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1
913	12376	Al103911	j.y lu		Sullar polypepilos i
	22271	Al103947	о,у	·	

TABLES	MENUMAN	HOWOTOGAS VI	NOTATIONS		AVIN Documento vasta en mari
Soq. (D	1,1	ConBook Ace./ Rel Ser ID No.	Madal Gada	Homologous Como Namo :	Moniologicus Cluster Nama
915	20833	Al104035	f.q	incentio v	ESTs, Weakly similar to COXG MOUSE CYTOCHROME C OXIDASE POLYPEPTIDE VIB [M.musculus], Human DNA sequence from clone RP4-591N18 on chromosome 22q13.1- 13.2 Contains a COX6B (Cytochrome C Oxidase subunit VIb (EC 1.9.3.1)) pseudogene, ESTs, GSSs and two putative CpG islands, RIKEN cDNA 2010000G05 gene, cytochrome c oxidase subunit VIb
916	7010	Al104099	w		
917	22101	AI104251	General		DKFZP564O243 protein
918	22833	AI104258	General		
919	22211	Al104279	g,m	·	EST, Weakly similar to IF6_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 6 [H.sapiens], Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:6530402L05, full insert sequence, integrin beta 4 binding protein
920	10720	AI104296	]		
921	15416	AI104340	[i		
922	10991	AI104342	а		
923	18831	Al104357	P		gamma [H.sapiens], ESTs, Weakly similar to 139393 alpha-actin [H.sapiens], ESTs, Weakly similar to S38782 actin beta' chain [H.sapiens], Homo sapiens mRNA; cDNA DKFZp434B2115 (from clone DKFZp434B2115), RIKEN cDNA 1700052K15 gene, RIKEN cDNA 1700061J02 gene, actin-like 7a, expressed sequence AL023024, expressed sequence AV259599, melanoma X-actin, uncharacterized hypothalamus protein HARP11
924	7223	AI104373	е		
925	23574	Al104520	e.g,s	cytochrome c oxidase subunit VIa polypeptide 1, cytochrome c oxidase, subunit VI a, polypeptide 1	NADH dehydrogenase (ubiquinone) 1
926	18509	A1104528	9		beta subcomplex, 6 (17kD, B17)
927	11680	AI104658	·		ESTs, Weakly similar to RENAL TRANSCRIPTION FACTOR KID-1 [R.norvegicus], ESTs, Weakly similar to T42682 hypothetical protein DKFZp434G1221.1 [H.sapiens], Homo sapiens, clone MGC:20975 IMAGE:4634585, mRNA, complete cds, expressed sequence AA415813, expressed sequence Al839920, expressed sequence AL024263, hypothetical protein FLJ20531, transcription factor 17, transcription factor 17-like 1, zinc finger protein 91, zinc finger protein homologous to Zfp91 in mouse
928		1	1	<del> </del>	<del></del>
928		AI104685	lr .		
928 929 930	23689 15377	AI104685 AI104821	o,cc		hypothetical protein MGC10947, leucine rich repeat (in FLII) interacting protein 2

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Seg. (D :	j Mantilar	ConBenk Ace. Rel Seg. ID No.	Model Gode	Homologova Canol	Lionologous Cluster Name
932	18451	Al104953	0,5		ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit, EST, Moderately similar to ATPD_HUMAN ATP SYNTHASE DELTA CHAIN, MITOCHONDRIAL PRECURSO [H.sapiens], RIKEN cDNA 0610008F14 gene, expressed sequence AA960090, expressed sequence AB76556, expressed sequence C85518
933	24375	Al104979	n,General		00400.00 000010
-					3-oxoacid CoA transferase,
934	18278	Al105080	bb		hypothetical protein FKSG25
935	2196	Al105243	9		
936	5199	Al105272	bb,General	<u> </u>	<u> </u>
937	12901	AI105301	0,8		
938	7700	A1105383	cc,General		
939	13343	AI105398	u		DNA segment, human D4S114, P311
940	22931	Al105417	e,General		protein expressed sequence D17825, glutaryl-
941	23596	AI105435	bb		Coenzyme A dehydrogenase
942	15893	Al105465	0	-	ESTs, Highly similar to DHSD_HUMAN SUCCINATE DEHYDROGENASE [H.sapiens], ESTs, Moderately similar to DHSD_HUMAN SUCCINATE DEHYDROGENASE [H.sapiens], succinate dehydrogenase complex, subunit D, integral membrane protein
943	12660	Al111492	С	<u> </u>	
944	24211	Al111599 Al111853	General k		EST, Moderately similar to 0710252A histone H3 [H.sapiens], ESTs, Highly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], ESTs, Weakly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], ESTs, Weakly similar to JQ1983 H3.3 like histone MH921 - mouse [M.musculus], H3 histone, family 3A, H3 histone, family 3B, H3 histone, family 3B, H3 histone, family 3B (H3.3B)
946	2539	Al111960	r		
,		·			EGF-containing fibulin-like extracellula matrix protein 1, EGF-containing fibulir like extracellular matrix protein 2, EST, Weakly similar to FBL3_RAT EGF-CONTAINING FIBULIN-LIKE EXTRACELLULAR MATRIX PROTEIN 1 PRECURSOR (FIBULIN-3) (FIBL-3) (T16 PROTEIN) [R.norvegicus], ESTs, Highly similar to FBL3_RAT EGF-CONTAINING FIBULIN-LIKE EXTRACELLULAR MATRIX PROTEIN 1 PRECURSOR (FIBULIN-3) (FIBL-3) (T16 PROTEIN) [R.norvegicus], ESTs, Weakly similar to FBL3_RAT EGF-CONTAINING FIBULIN-LIKE EXTRACELLULAR MATRIX PROTEIN 1 PRECURSOR (FIBULIN-3) (FIBL-3) (T16 PROTEIN) [R.norvegicus], epidermal growth factor-containing
947	5729	AI111990	k		fibulin-like extracellular matrix protein 1, epidermal growth factor-containing fibulin-like extracellular matrix protein

	e CHOLVAIN	HOWOTOGÁE W	ROTATIONS	) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	7/A117, Dockel No. 44221-5353W0 Dock No. 1793597.1
	reillineis	GenBank Acc./ Ref. Seq. ID No.	1 5,0 · · ·	Homologous Come	
948	4049	Al112012	i,q,u,General		EST, Moderately similar to PM17 MOUSE MELANOCYTE PROTEIN PMEL 17 PRECURSOR [M.musculus], Homo sapiens, Similar to glycoprotein (transmembrane) nmb, clone MGC:1696 IMAGE:3345861, mRNA, complete cds, glycoprotein (transmembrane) nmb, silver
949	12908	AI112043	i		
950	20041	Al112161	t		
951	12937	AI112462	General	<u> </u>	
952	3713	Al112571	b		
953	12921	Al112636	General		Homo sapiens BAC clone RP11- 335J18 from 2, RIKEN cDNA 1700124F02 gene, expressed sequence Al325217, uridine phosphorylase
954	12965	Al112926	General		,
955	7499	Al112986	General		
956	4969	Al113008	r		
957	11817	Al136295	ſ		DKFZP564O123 protein, putative breast adenocarcinoma marker (32kD)
959	11165	Al136372	С		
960	4045	Al136460	CC	· · ·	
961	12782	AI136493	k		
962	6850	Al136665	h		ectonucleoside triphosphate diphosphohydrolase 1, ectonucleoside triphosphate diphosphohydrolase 2, ectonucleoside triphosphate diphosphohydrolase 3, ectonucleoside triphosphate diphosphohydrolase 6 (putative function)
963	20920	Al136891	<b>.</b>	butyrate response factor 1, zinc finger protein, C3H type, 36-like 1	ESTs, Moderately similar to TISB RAT TIS11B PROTEIN [R.norvegicus], ESTs, Weakly similar to TISB RAT TIS11B PROTEIN [R.norvegicus], butyrate response factor 1, butyrate response factor 1 (EGF-response factor 1), butyrate response factor 2, butyrate response factor 2 (EGF-response factor 2), expressed sequence AW742437
			p,v	type, 30-tike i	
964 965	6552 22722	AI137062 AI137211	o i		6.2 kd protein
303	LEICE	A131211	<u>'                                    </u>		hypothetical protein FLJ20260,
966	13111	AI137224	o,General		oxysterol binding protein 2
967	15969	Al137302			DNA segment, Chr 17, ERATO Doi 197, expressed, EST, Weakly similar to ZF37_RAT ZINC FINGER PROTEIN 37 (ZFP-37) [R. norvegicus], ESTs, Weakly similar to 138600 zinc finger protein ZNF135 [H. sapiens], ESTs, Weakly similar to ZINC FINGER PROTEIN ZFP-29 [M. musculus], Homo sapiens GIOT-1 mRNA for gonadotropin inducible transcription repressor-1, partial cds, expressed sequence AI449432, hypothetical protein FLJ14855, zinc finger protein 135 (clone pHZ-17), zinc finger protein 29, zinc finger protein 37, zinc finger protein protein homologous to Zfp37 in mouse
968	14349	AI137303	e d		Processing and the support an integral
200	17073	A1107400		L	l

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Son ID		Goiffail: Acc./ Ref. Seq. (D.No.	Wastel Carlo	Homologous Care	Concidence (Cueter Mana)
				heme : 2	protein C receptor, endothelial, protein
969	9166	Al137406	General .	·	C receptor, endothelial (EPCR) EST, Weakly similar to ZF37_RAT ZINC FINGER PROTEIN 37 (ZFP-37) [R.norvegicus], ESTs, Weakly similar to B32891 finger protein 2, placental [H.sapiens], ESTs, Weakly similar to MLZ4 MOUSE ZINC FINGER PROTEIN MLZ-4 [M.musculus], Homo sapiens cDNA FLJ14967 fis, clone THYRO1000242, moderately similar to ZINC FINGER PROTEIN 84, expressed sequence Al854635, zinc finger protein 113, zinc finger protein
070	0505	A1407546			268, zinc finger protein 37, zinc finger protein 46, zinc finger protein 84 (HPF2), zinc finger protein homologous to Zfp37 in mouse
970	9525	AI137516	Constant		nomologous to Ztp37 in mouse
971	7414	Al137579 Al137586	General General		EST, Weakly similar to IMB3_HUMAN IMPORTIN BETA-3 SUBUNIT [H.sapiens], Homo sapiens cDNA FLJ12978 fis, clone NT2RP2006321, RAN binding protein 6, karyopherin (importin) beta 3
973	11321	Al137752	<del>v.</del> 2	-	EST, Highly similar to R5HU7 ribosomal protein L7, cytosolic [H.sapiens], EST, Weakly similar to RL7 MOUSE 60S RIBOSOMAL PROTEIN L7 [M.musculus], ESTs, Highly similar to R5HU7 ribosomal protein L7, cytosolic [H.sapiens], calponin like transmembrane domain protein, ribosomal protein L7
974	23473	Al137932			
975	13158	AI138024	i		
					UDP-glucose ceramide
976	13467	AI138034	СС		glucosyltransferase
977	11377	Al138105	у		
978	6790	Al144801	d,h		
979	6506	Al144919	j.l.y		
980	8027	AI144958	<u> </u>	·	
982	14458	Al145095	General		
983	7476	AI145202	9		
984	17545	AI145384	6		<u> </u>
985	17479	AI145385	r	<u> </u>	
986	4194	AI145387	r		<del></del>
987	8634	AI145722	9		
988 989	8339 2059	Al145761 Al146005	y,General h,General	5	RIKEN cDNA 2610020J05 gene, pseudoundine synthase 1, pseudoundylate synthase 1
999	23224	Al146033	o		ranslocase of inner mitochondrial membrane 10 homolog (yeast), translocase of inner mitochondrial membrane 9 (yeast) homolog
991	5232	Al168942	bb	branched chain keto acid dehydrogenase E1, beta polypeptide (maple syrup urine disease), branched chain ketoacid dehydrogenase E1, beta polypeptide	
992	18472	Al168975	u	Ibeithehring	
992	18473	AI168975	u		
993	13235	AI169975	r		
994	11618	AI169115	o,y,General		

TABLES	E HAWAN	HOMOLOGUE AN	(NOTATIONS		Ally, Docket No. 44221-533200 Doc. No. 1793327,
300.ID No.444		Gendank Ace/ Ref. Seg.(D No.	Model Gode	Homologous Come	Homologous Gluster Name
995	17386	AI169144	o		
996	10984	Al169156	o,u		
997	8205	AI169176	e		
998	12979	AI169177	e		immediate early response 3
999	2607	AI169211	c		Homo sapiens clone 24468 mRNA sequence, Mus musculus 0 day neonate skin cDNA, RIKEN full-length enriched library, clone:4633401122, full insert sequence, heterogeneous nuclear ribonucleoprotein C, heterogeneous nuclear ribonucleoprotein C (C1/C2), hnRNP-associated with lethal yellow ATPase, H+ transporting, lysosomal (vacuolar proton pump), subunit 1, EST, Weakly similar to 154197 hypothetical protein [H.sapiens], ESTs, Weakly similar to VAS1_RAT VACUOLAR ATP SYNTHASE SUBUNIT S1 PRECURSOR (V-
	,	g -444			ATPASE S1 SUBUNIT) (V-ATPASE S1 ACCESSORY PROTEIN) (V-ATPASE AC45 SUBUNIT) (C7-1 PROTEIN) [R.norvegicus], Homo sapiens cDNA FLJ12563 fis, clone NT2RM4000820, weakly similar to VACUOLAR ATP SYNTHASE SUBUNIT AC45 PRECURSOR (EC
1000	22661	Al169265	s,z		3.6.1.34)
1001	13239	Al169278	g.j,l,y,z		
1002	24162	Al169279	m		
					ADP-ribosylation factor-like 6
1003	16879	AI169284	lo		interacting protein
1004	24213	Al169289	P		EST, Moderately similar to 0710252A histone H3 [H.sapiens], ESTs, Highly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], ESTs, Weakly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], ESTs; Weakly similar to JQ1983 H3.3 like histone MH921 - mouse [M.musculus], H3 histone, family 3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B)
1005	13240	AI169311	cc		
1006	5931	Al169324	b		
1007	20891	AI169337	d		hypothetical protein
1009	11979	AI169365 .	S		EST, Weakly similar to S13101 cytochrome P450 c117 - rat [R.norvegicus], RIKEN cDNA 2010301M18 gene, RIKEN cDNA 2010318C06 gene, RIKEN cDNA 2210009K14 gene, cytochrome P450, 2c29, cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 19

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Seq. (D. No.	g;;; Centiller	ConBonk Aced Ref. Seq. ID No.	Model Gode	Homologous Como	I many section of the
					ATPase, H+ transporting, lysosomal (vacuolar proton pump), 42 kDa, ATPase, H+ transporting, lysosomal (vacuolar proton pump), member D, ESTs, Moderately similar to
1010	20697	Al169494	o,u		VA0D_HUMAN VACUOLAR ATP SYNTHASE SUBUNIT D (V-ATPASE D SUBUNIT) (VACUOLAR PROTON PUMP D SUBUNIT) (V-ATPASE AC39 SUBUNIT) (V-ATPASE 40 KDA ACCESSORY PROTEIN) (P39) [H.sapiens]
1011	8234	Al169517	Z		[[n.sapieris]
1012	18343	Al169648	0		
1013	10839	Al169655	I,m		
1014	24146	Al169668	j,l		ATP-binding cassette, sub-family F (GCN20), member 1, ATP-binding cassette, sub-family F (GCN20), member 2, hypothetical protein FLJ11198
					EST, Highly similar to T47184 hypothetical protein DKFZp434F1526.1 [H.sapiens], ESTs, Weakly similar to T47184 hypothetical protein DKFZp434F1526.1 [H.sapiens], hypothetical protein
1015	22575	Al169728	r		FLJ10889 Gene 33/Mig-6, RIKEN cDNA
1016	804	Al169756	cc		1300002F13 gene
1017	8213	Al169883	P	ferritin light chain 1, ferritin, light polypeptide	ESTs, Highly similar to FRHUL ferritin light chain [H.sapiens], ESTs, Moderately similar to FRHUL ferritin light chain [H.sapiens], PRO0470 protein, RIKEN·cDNA 4933416E14 gene, ferritin light chain 2, ferritin, light polypeptide
1018	3916	AI169947	i,bb		
1019	3733	Al170053	u,General		
1020	14179	Al170224	CC		*
1021	11406	Al170263	r		interleukin 20 receptor, alpha
	·				ESTs, Weakly similar to ZNT4_HUMAN ZINC TRANSPORTER 4 [H.sapiens], RIKEN cDNA 1810059J10 gene, hypothetical protein DKFZp547M236, hypothetical protein FLJ12496, solute carrier family 30 (zinc transporter), member 1, solute carrier family 30 (zinc transporter),
1022	3547	Al170279	General		member 4
					PDZ and LIM domain 1 (elfin), PDZ and LIM domain 3, PDZ-LIM protein mystique, RIKEN cDNA 1110003B01 gene, Rattus norvegicus LIM-domain protein LMP-1 mRNA, complete cds, Z-band alternatively spliced PDZ-motif, actinin alpha 2 associated LIM protein, alpha-actinin-2-associated LIM protein, alpha-actinin-2-associated LIM protein,
1023	11524	AI170340	j.y.z		reversion Induced LIM gene
1024 1025	2729	AI170363	e,i	·	
1025	18811 22524	Al170525 Al170542	h		
1026	24048				CGL-10 protoin
1021	24040	A1170370	a,g	L	CGI-10 protein

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Sog. ID. No: 🎠	Timi Identifier	GenCenk Acc./ Ref. Seq: ID No.	Model Gode / 1	Keme we executed the course	Kómologovs Glvstar Kamo
1028	5968	Al170692	y.aa		GABA(A) receptor-associated protein- like 2, RIKEN cDNA 0610012F20 gene, gamma-aminobutyric acid (GABA(A)) receptor-associated protein like 1, ganglioside expression factor 2
1029	9757	Al170693	b		
1030	18905	AI170770	e,\$		
1031	16170	AI170894	i .		RIKEN cDNA 1300012C15 gene, RIKEN cDNA 2310076L09 gene, adipose differentiation related protein, adipose differentiation-related protein Mus musculus 12 days embryo male
1032	7089	Al171185	C	hyaluronan mediated motility receptor (RHAMM), hyaluronan-mediated motility receptor (RHAMM)	wolffian duct Includes surrounding region cDNA, RIKEN full-length enriched library, clone:6720466F14, full insert sequence, RIKEN cDNA 0610027D24 gene, TRAF4 associated factor 1, hyaluronan mediated motility receptor (RHAMM), hyaluronan-mediated motility receptor (RHAMM)
1033	17591	AI171354	b	<del> </del>	heterogeneous nuclear
1034	13285	AI171361	h		ribonucleoprotein A0
1035	4428	Al171362	a		EST, Moderately similar to NUAM_HUMAN NADH-UBIQUINONE OXIDOREDUCTASE 75 KD SUBUNIT PRECURSOR [H.sapiens], NADH dehydrogenase (ublquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase)
1036	18126	Al171369	w		
1037 1038	23253 4584	Al171448 Al171492	o Im,General	*	RIKEN cDNA 2010107E04 gene, chromosome 14 open reading frame 2 expressed sequence AU043134, expressed sequence AV124504
1039	11158	Al171542	r.s		EST, Moderately similar to NI2M_HUMAN NADH-UBIQUINONE OXIDOREDUCTASE B22 SUBUNIT [H.sapiens], NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (22kD, B22)
1040	15345	Al171587			
1041	21183	AI171676	k		
					ESTs, Highly similar to FRHUL ferritin light chain [H.sapiens], ESTs, Moderately similar to FRHUL ferritin light chain [H.sapiens], PR00470 protein, RIKEN cDNA 2010009K05 gene, RIKEN cDNA 4933416E14 gene, cysteine conjugate-beta lyase; cytoplasmic (glutamine transaminase K, kyneurenine aminotransferase),
l	10005				ferritin light chain 2, ferritin, light
1042	8215	AI171692	<del> </del>	light polypeptide	polypeptide, hypothetical protein 669
1043	11437	Al171794	1	<del>                                     </del>	
1044	2625	A1171800	cc	<del> </del>	<del> </del>
1045	23579	AI171802	v		ļ
1046	11708	Al171807	l,t		ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit, RIKEN cDNA 2410043G19
1047	17204	AI171844	s.y.z		gene, expressed sequence AV000645
1048	4420	Al171916	m	1	

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Sog, (1) Kio	ldeallier	ConBank Acel Ref. Seq. 10 No.	Model Gode	Homologous Cene. Nemo	Homologova Grafor Kama
V - 1					DKFZP564F0522 protein, ESTs,
					Weakly similar to T08675 hypothetical
1049	3266	AI171948	[I,m		protein DKFZp564F0522.1 [H.sapiens
1050	19012	AI172056	i a bb		
1051 1052	11205 6057	Al172057 Al172102	a,q,bb b		
1053	19128	AI172102	m		
1054	15673	Al172107	z		KIAA1883 protein, sirtuin (silent mating type information regulation 2, S.cerevlsiae, homolog) 2, sirtuin 2 (silent mating type information regulation 2, homolog) 2 (S. cerevisiae)
1055	6630	AI172184	n		ALL CITE OF MARKET
1056 1057	11968 6974	A1172208 A1172263	bb I.m		Alpha-fetoprotein, ESTs, Weakly similar to ALPHA-FETOPROTEIN PRECURSOR [M.musculus], ESTs, Weakly similar to FPHU alpha-fetoprotein precursor [H.sapiens], alpha fetoprotein, alpha-fetoprotein
1058	23313	Al172271	d		
1059	2140	Al172272	General		ESTs, Highly similar to JC4577 transcription elongation factor T1 [H.sapiens], expressed sequence Al326274, transcription elongation factor A (SII), 2
1060	15382	Al172302	I,p,General		
1061	18689	AI172329	1		
1062	17887	Al172414	0		
1063	3042	Al172447	General		ESTs, Highly similar to BCL3 [M.musculus], ESTs, Weakly similar to I-kappa B alpha chain [M.musculus], hypothetical protein MGC15396, nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, beta, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon, testisspecific ankyrin motif containing protein
1064	17291	Al172491	bb		ESTs, Highly similar to ISOCITRATE DEHYDROGENASE [R.norvegicus], Isocitrate dehydrogenase 1, soluble, Isocitrate dehydrogenase 1 (NADP+), soluble, isocitrate dehydrogenase 2 (NADP+), mitochondrial
1065	26222	AI172506	P		The same of the sa
1066	13095	AI172595	r		
1067	8795	AI172618	General		···
1068	6454	Al175342	j,l,m,y		BACULOVIRAL IAP REPEAT- CONTAINING PROTEIN 6 (UBIQUITIN-CONJUGATING BIR- DOMAIN ENZYME APOLLON) [H.sapiens], ESTs, Moderately similar to T31067 BIR repeat containing ubiquitin-conjugating enzyme BRUCE mouse [M.musculus], baculoviral IAP repeat-containing 6, hypothetical protein FLJ13855, likely ortholog of mouse ubiquitin-conjugating enzyme E2-230K

TABLE	e lyminiya	<u>rioxidroens va</u>	NOTATIONS .	100 mg/s 200	Aliy, Docket No. 44921-5089XX Doc. No. 1768397.
Scoj. [D] No. 14	li le militer	CoiBant Acc./ Roll Soc. ID No.	Model Code:	Komologous Cino Kemo	Howologous Gluster Nams
					EST, Highly similar to RASN RAT TRANSFORMING PROTEIN P21/N-RAS [R.norvegicus], EST, Weakly similar to TVHURR transforming protein R-ras [H.sapiens], Harvey rat sarcoma oncogene, subgroup R, RIKEN cDNA 2610016H24 gene, RIKEN cDNA 4930526B11 gene, Ris, expressed sequence Al573426, neuroblastoma RAS viral (v-ras) oncogene homolog, neuroblastoma raoncogene, related RAS viral (r-ras) oncogene homolog, similar to mouse
1070	4445	A1175466	х		Ras, dexamethasone-induced 1 ESTs, Weakly similar to NHPX RAT
1071	3418	Al175475	m ·		NHP2/RS6 FAMILY PROTEIN YEL026W HOMOLOG [R.norvegicus], RIKEN cDNA 2410130M07 gene, non-histone chromosome protein 2 (S. cerevisiae)-like 1, nucleolar protein family A, member 2 (H/ACA small nucleolar RNPs), sperm specific antigen 1
					ESTs, Highly similar to S25432 translation elongation factor eEF-1 beta chain [H.sapiens], eukaryotic
1072	18507	AI175551	bb		translation elongation factor 1 beta 2
1073	10217	AI175628	w		
1074	7262	Al175833	j,m,x		T
1075	19004	AI175875	r		
1076	22352	AI175959	I,General		
1077	7022	AI176041	h,n		
1078	21467	Al176061	t		EST, Moderately similar to TIG2_HUMAN RETINOIC ACID RECEPTOR RESPONDER PROTEIN 2 PRECURSOR [H.sapiens], retinoic acid receptor responder (tazarotene induced) 2
1079	18581	AI176160	General		
1080	14159	AI176169	g		
1081	21742	AI176172	w		
4000	40480	AI176185		FBJ osteosarcoma oncogene, v-fos FBJ murine osteosarcoma viral oncogene homolog	
1082 1083	10182 22765	AI176165	General	onlogend nomolog	
1084	6905	Al176275	a		EST, Moderately similar to T02747 phospholipid-hydroperoxide glutathione peroxidase [H.sapiens], EST, Weakly similar to T02747 phospholipid-hydroperoxide glutathione peroxidase [H.sapiens], ESTs, Weakly similar to GSHH RAT PHOSPHOLIPID HYDROPEROXIDE GLUTATHIONE PEROXIDASE [R.norvegicus], Homo sapiens PRO2893 mRNA, complete cds, RIKEN cDNA 2310016C16 gene, RIKEN cDNA 3110050F08 gene, glutathione peroxidase 4, glutathione peroxidase 4 (phospholipid hydroperoxidase)
					clone NT2RM4000895, UDP-N- acteylglucosamine pyrophosphorylase
1085	12999	AI176276	cc	1	1

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Seq. ID		Conford Ace./ Ref. Seg. ID No.	Model Gode	Homologous Comp.	The second second
		·			ESTs, Weakly similar to B Chain B, Crystal Structure Of The D1d2 Sub- Complex From The Human Snmp Core Domain [H.sapiens], small nuclear ribonucleoprotein D2
1086	16438	Al176294	8		polypeptide (16.5kD)
1087	21130	AI176298	у		
1088	3014	Al176362 Al176363	e	<u> </u>	
1090	15015 19006	A1176393	x		
	20001				ESTs, Highly similar to C560_HUMAN SUCCINATE DEHYDROGENASE CYTOCHROME B560 SUBUNIT, MITOCHONDRIAL PRECURSOR [H.sapiens], succinate dehydrogenase complex, subunit C, integral membrane protein, 15kD
1091	12174	Al176396 Al176435	i.m		membrane protein, 15kb
1092	15191	Al176456	b,o,t,v,cc		ESTs, Moderately similar to AF078844 1 hqp0376 protein [H.sapiens], expressed sequence AA409533
1094	24236	AI176473	d,General		
1095	16518	A1176546	V		ESTs, Highly similar to HS9B RAT HEAT SHOCK PROTEIN HSP 90-BETA [R.norvegicus], Mus musculus, clone IMAGE:3584589, mRNA, partial cds, expressed sequence C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1, heat shock protein, 86 kDa 1
1096	2161	AI176592	General		
1097	. 12436	AI176610	General		ESTs, Weakly similar to SYC_HUMAN CYSTEINYL-TRNA SYNTHETASE [H.sapiens], cysteinyl-tRNA synthetase, hypothetical protein FLJ12118
1098	2536	Al176616	I,v,General		
1099	18525	AI176792	U		
1100	23449	AI176828	9		
1101	23299	AI176839	General		
1102	3580	AI176848	θ		*
1103	22103	AI176849	d,General		
1104 1105	16036 15588	AI176855 AI176916	General		phosphomannomutase 1
1106	16917	Al176951	t		prospiration and t
1107	16124	Al176963			with Glu/Asp-rich carboxy-terminal domain, 2, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4, ESTs, Weakly similar to MRG1_HUMAN MSG-RELATED PROTEIN 1 [H.sapiens], expressed sequence AW742964
1107	15146	A1176963 A1176969	b.General		ATT   42304
1109	5786	A1177058	f General		
1110	2852	A1177059	C		
1112	3156	AI177092	9		
					EST, Moderately similar to APT RAT ADENINE PHOSPHORIBOSYLTRANSFERASE [R.norvegicus], Mouse adenine phosphoribosyltransferase (APRT), complete cds, adenine phosphoribosyltransferase, adenine phosphoribosyltransferase, expressed
1113	14384	A1177098	a		sequence C85684

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e	and the Fig.	Sept. 4		B. C.	T Dog No. 1793197.
Seq. ID No.	reijibreiji	ConBonk Ace <i>l</i> Rok Sog. (D No.	Model Godow	Konologore Cere ; ;	Komologovis Alvster Namo
			1		ESTs, Weakly similar to
					COMPLEMENT C1Q SUBCOMPONENT, C CHAIN
					PRECURSOR [M.musculus], Homo
					sapiens, Similar to complement
					component 1, q subcomponent, c
	İ				polypeptide, clone MGC:17279
			1		IMAGE:4212772, mRNA, complete
	- 45				cds, complement component 1, q subcomponent, beta polypeptide,
					complement component 1, q
		٠, ١	· '		subcomponent, c polypeptide,
1114	13310	AI177119	General		expressed sequence Al385742
1115	24049	AI177341	g,p,s,u		CGI-10 protein
1116	15964	AI177360	o,General		ESTA Highly similar to DOZOZO
					ESTs, Highly similar to B27079 fibronectin receptor beta chain
					precursor [H.sapiens], integrin beta 1
	,				(fibronectin receptor beta), integrin
		,			beta 2, integrin, beta 1 (fibronectin
					receptor, beta polypeptide, antigen
					CD29 includes MDF2, MSK12),
					integrin, beta 2 (antigen CD18 (p95), lymphocyte function-associated
					antigen 1; macrophage antigen 1 (mac-
1117	14989	AI177366	u .		1) beta subunit)
1118	7975	Al177374	aa		
					dickkopf (Xenopus laevis) homolog 3,
1119	3006	A1477205			dickkopf (Xenopus laevis) homolog 4,
1119	3008	Al177395	k		soggy-1 gene ESTs, Highly similar to ROA3 HUMAN
					HETEROGENEOUS NUCLEAR
				(X)	RIBONUCLEOPROTEIN A3
					[H.sapiens], ESTs, Highly similar to
					S12520 core protein A1 [H.sapiens],
					ESTs, Weakly similar to ROA2
					MOUSE HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS
					A2/B1 [M.musculus], Human DNA
					sequence from clone 522P13 on
				•	chromosome 6p21.31-22.3. Contains a
			•		60S Ribosomal Protein L21
					pseudogene and an HNRNP A3
					(Heterogenous Nuclear Riboprotein A3, FBRNP) pseudogene. Contains
				•	ESTs, STSs and GSSs, RIKEN cDNA
					3010025E17 gene, Ras-GTPase-
					activating protein SH3-domain binding
			•		protein, heterogeneous nuclear
					ribonucleoprotein A1, heterogeneous nuclear ribonucleoprotein A2/B1,
1120	17570	AI177683	r		hypothetical protein 23851
1121	9521	Al177706	b		The state of the s
					ESTs, Moderately similar to
					PBEF_HUMAN PRE-B CELL
					ENHANCING FACTOR PRECURSO [H.sapiens], pre-B-cell colony-
1122	14425	Al177755	g,General		enhancing factor
1123	10611	Al177790	j,m		
1124	5356	Al177813	cc		modulator recognition factor I
1125	11791	AI177843	General		sarcoma amplified sequence

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30g, ID .	ldentiliter	ConDank Ace./ Ref. Sog. (D No.)	Model Gode.	Monologous Coro Nemo de	Honologous Gluster Name
					EH-domain containing 3, EH-domain containing 4, ESTs, Highly similar to EP15 MOUSE EPIDERMAL GROWT FACTOR RECEPTOR SUBSTRATE SUBSTRATE 15 [M.musculus], Homo sapiens cDNA FLJ13682 fis, clone PLACE2000015, weakly similar to EPIDERMAL GROWTH FACTOR RECEPTOR SUBSTRATE SUBSTRATE 15, Mus musculus adul male cecum cDNA, RIKEN full-length enriched library, clone:9130014G17, full insert sequence, epidermal growth
1126	14484	Al177867	General		factor receptor pathway substrate 15, epidermal growth factor receptor substrate EPS15R
1127	5780	Al177869	General		EST, Weakly similar to TESTIN 2 [M.musculus], LIM and cysteine-rich domains 1, four and a half LIM domains 2, testis derived transcript, testis derived transcript (3 LIM domains), vascular Rab-GAP/TBC-containing
			Conomi		ESTs, Weakly similar to TGIF MOUSI 5'-TG-3' INTERACTING FACTOR [M.musculus], Homo sapiens TGF be induced transcription factor 2-like mRNA, partial sequence, RIKEN cDN 5430405H02 gene, RIKEN cDNA 5730599009 gene, TG Interacting factor, TGFB-induced factor (TALE family homeobox), TGFB-induced factor 2 (TALE family homeobox)
1128	19184	AI178025	General		ESTs, Highly similar to T13963 formli related protein, lymphocyte specific - mouse [M.musculus], ESTs, Moderately similar to T13963 formin related protein, lymphocyte specific - mouse [M.musculus], Homo sapiens mRNA; cDNA DKFZp762B245 (from clone DKFZp762B245); partial cds,
	6059	AI178245	c,General		KIAA1902 protein, formin-like
130	23248 4073	AI178267 AI178272	у 0		chromosome 1 open reading frame 9
132	7838	A1178291	e	l	<del>                                     </del>
133	18996	AI178326	<u>y</u>		·
1134	22488	Al178392	Ъ		EST, Highly similar to 149523 Mouse primary response gene B94 mRNA, 3'end - mouse [M.musculus], Homo sapiens, clone MGC:16332 IMAGE:3842543, mRNA, complete cds, RIKEN cDNA 1200009106 gene, RIKEN cDNA 1600013K19 gene, similar to S. cerevisiae Sec6p and R. norvegicus rsec6, turnor necrosis factor, alpha-induced protein 2
1135	18800	A1178504	n.p.aa		
1136	22197	AI178527	g,General		
	3401	A1178684	ibb		ESTs, Weakly similar to MCM3_HUMAN DNA REPLICATION LICENSING FACTOR MCM3 [H.sapiens], minichromosome maintenance deficient (S. cerevisiae
1137 1138	17713	AI178700	m		

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1140	23567	AI178746	v,General		
1141	18907	Al178971 ·	С		EST, Moderately similar to HART1 hemoglobin alpha-1 chain - rat [R.norvegicus], EST, Weakly similar to A45964 hemoglobin alpha chain - mouse [M.musculus], ESTs, Moderately similar to HART1 hemoglobin alpha-1 chain - rat [R.norvegicus], Hemoglobin, alpha 1, hemoglobin, alpha 1, hemoglobin, alpha 1, hemoglobin, alpha 1, hemoglobin, alpha 1, hemoglobin, alpha 2
1142	20991	AI178979	<u> </u>		bladaldaa aasala d
1143	5887 8477	Al179099	q,t		biotinidase, vanin 1, vanin 2, vanin 3
1145	3348	Al179167 Al179288	b,e,General u,v		
1145	13608	Al179200	8		
1147	8849	Al179315	g.p		
1148	13611	A1179378	v,General		EST, Weakly similar to MAST CELL PROTEASE 7 PRECURSOR [M.musculus], ESTs, Weakly similar to MCT7 RAT MAST CELL PROTEASE 7 PRECURSOR [R.norvegicus], RIKEN cDNA 2410039E18 gene, RIKEN cDNA 4933401F05 gene, marapsin, mast cell protease 7, protease, serine, 21 (testisin), protease, serine, 22, protease, serine, 8 (prostasin), tryptase delta 1, tryptase, alpha EST, Highly similar to CA13 HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [H.sapiens], EST,
1149	15438	A1179399	m,x	collagen, type V, alpha 2, procollagen, type V, alpha 2	Weakly similar to CA25_HUMAN COLLAGEN ALPHA 2(V) CHAIN PRECURSO [H.sapiens], EST, Weakly similar to I49607 procollagen type V alpha 2 - mouse [M.musculus], RIKEN cDNA 2810002D19 gene, collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant), collagen, type V, alpha 2, hypothetical protein DKFZp434F0318, hypothetical protein MGC12921, procollagen, type III, alpha 1, procollagen, type V, alpha 2, procollagen, type V, alpha 2, procollagen, type XIII, alpha 1
1150		Al179407	e,t,General		
1151 1152	15042 2768	Al179422 Al179481	b,General i,General		
1153	24041	AI179580	b.i		·
1154	19822	Al179599	o,General		
1155	23270	A1179601	q.General		
1156	5901	Al179605	8		
				heme oxygenase	
1157	16081	Al179610	g,i,p	(decycling) 1	heme oxygenase (decycling) 1
1158	14564	AI179717	k		
1159	7918	Al179750	General		
1160	6647	Al179795	9	hypothetical protein similar to mouse aldehyde reductase 6 (renal), renal-	
1161	9097	AI179875	o,General	specific oxido-reducatse	

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833, ID. No.	(dentilier	Conban's Acel. Roi. Sog. ID No:	Modol Godo	Homologova Cario; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Nonologous Gluster Namo
1162	23989	Al179953	a		gap junction membrane channel protein beta 2, gap junction membrane channel protein beta 6, gap junction protein, beta 2, 26kD (connexin 26), gap junction protein, beta 6 (connexin 30)
1163	12899	Al179967	Ь		507 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1164	1687	- Al179971	c	hemoglobin alpha, adult chain 2, hemoglobin, alpha 1	EST, Moderately similar to HART1 hemoglobin alpha-1 chain - rat [R.norvegicus], ESTs, Moderately similar to HART1 hemoglobin alpha-1 chain - rat [R.norvegicus], RIKEN cDNA 2510042H12 gene, hemoglobin alpha, adult chain 1, hemoglobin, alpha 1, hemoglobin, alpha 2
1165	22569	AI179979	General_		phocobocogina phocobotaca
1166	23514	Al179986	o.General	•	phosphoserine phosphatase, phosphoserine phosphatase-like
1167	15892	Al179988	c.General		
1168	12402	Al180004	g		-
					DnaJ (Hsp40) homolog, subfamily B, member 3, DnaJ (Hsp40) homolog, subfamily B, member 6, ESTs, Moderately similar to HSJ2 HUMAN DNAJ PROTEIN HOMOLOG 2 [H.sapiens], ESTs, Weakly similar to HSJ2 HUMAN DNAJ PROTEIN HOMOLOG 2 [H.sapiens], Homo sapiens, clone IMAGE:3930327, mRNA, partial cds, RIKEN cDNA 2810451A06 gene, expressed
1169	5443	AI180165	General		sequence AU020082 eukaryotic translation termination
1170	5481	AI180170	General		factor 1
1171	24028	AI180239			
1172	17089	AI180281	9		WAR A 6 7 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1173	3701	AI180306	aa		KIAA0273 gene product, KIAA1796 protein
	3352	AI180334	m		protein
1175	24368	AI180392	l.m		ESTs, Highly similar to NBP_HUMAN NUCLEOTIDE-BINDING PROTEIN [H.sapiens], hypothetical protein FLJ12660, nucleotide binding protein 1 (E.coli MinD like), nucleotide binding protein 2 (E.coli MinD like)
1176	19080	Al180414 Al227647	c j.y.z		EST, Highly similar to T14106 probable GTPase-activating protein SPA-1 - rat [R.norvegicus], ESTs, Highly similar to T14106 probable GTPase-activating protein SPA-1 - rat [R.norvegicus], KIAA0440 protein, RIKEN cDNA 2610511M17 gene, expressed sequence AW213287, signal-induced proliferation associated gene 1 hypothetical protein, clone 1-53, small inducible cytokine subfamily D (Cys-X3 Cys), member 1 (fractalkine, neurotactin), small inducible cytokine subfamily D, 1
1178	22838	A1227667	aa		WAA 0005
1179	6765	AI227761	i,General		KIAA0665 gene product, KIAA1821 protein

TABLES	e Handah	KOWOLOGAEV	1.5		-Aug Doctor No. 44921-593370
Seg. ID . No::	ldemilier	ConBark Acc./ Rel. Sog. ID No.	Model Code	Honologous Coro	Homologous Gluster Namo
1180	24054	Al227867	General		X-linked protein, brain expressed, X- linked 1, hypothetical protein FLJ10097, nerve growth factor receptor (TNFRSF16) associated protein 1
1181	7324	Al227885	<u>                                     </u>		
1182	23898	AI227987	d	peptidylglycine alpha-	peptidylglycine alpha-amidating
1183	1651	AI228068	n,w	amidating monooxygenase	
1184	14237	Al228128	9		
1185	14242	AI228197	General		ESTs, Moderately similar to C21I_HUMAN PUTATIVE PROTEIN C21ORF18 [H.sapiens], chromosome 21 open reading frame 18
1186	16913	AI228236	0		
1187	22915	AI228299	r		
1188	8917	AI228301	General		
1189 1190	15879 13727	Al228313 Al228326	r,General o,General		
1190	6102	A1228326 A1228335	General		
1192	13730	A1228356			ESTs, Highly similar to S70642 ubiquitin ligase Nedd4 - rat [R.norvegicus], ESTs, Moderately similar to S70642 ubiquitin ligase Nedd4 - rat [R.norvegicus], ESTs, Weakly similar to NED4 MOUSE NEDD-4 PROTEIN [M.musculus], RIKEN cDNA 2600016C11 gene, neural precursor cell expressed, developmentally down-regulated 4, neural precursor cell expressed, developmentally down-regulated gene 4a
1193	13745	AI228494	b,cc		
1194	4217	Al228587	s		hypothetical protein MGC4614, membrane component, chromosome 17, surface marker 2 (ovarian carcinoma antigen CA125), next to the Brca1, oxidative stress induced fixe, sequestosome 1
1195	16053	AI228596	cc		
1196 1197	3557	Al228672 Al228682	e	<del></del>	
1197 .	11605 13203	AI228682 AI228728	le Ir		
1199	13771	AI228848	g		DEAD/H (Asp-Glu-Ala-Asp/His) box binding protein 1, Protein inhibitor of activated STAT X, protein inhibitor of activated STAT protein PIASy, protein inhibitor of activated STAT3
1200	5918	Al229036	r		
1201	8235	Al229154	k		
					Rattus norvegicus mRNA for vesicle associated membrane protein 2B, vesicle-associated membrane protein 1, vesicle-associated membrane protein 1 (synaptobrevin 1), vesicle-
4202	16707	A120040C		vesicle-associated membrane protein 1, vesicle-associated membrane protein 1 (synaptobrevin 1), vesicle- associated membrane protein 2, vesicle- associated membrane	associated membrane protein 2, vesicle-associated membrane protein 2 (synaptobrevin 2), vesicle-associated membrane protein 5, vesicle-associated membrane protein 5 (myobrevin), vesicle-associated membrane protein 8, vesicle-associated membrane protein 8 (sendeboxic)
1202 1203	16203 13826	AI229196 AI229304	ı a	membrane protein 1, vesicle-associated membrane protein 1 (synaptobrevin 1), vesicle- associated membrane protein 2, vesicle-	vesicle-associated membrane protein 2 (synaptobrevin 2), vesicle-associated membrane protein 5, vesicle- associated membrane protein 5 (myobrevin), vesicle-associated membrane protein 8, vesicle-

TABLES	* * *	Komorogne av	NOTATIONS	Maria Care S	Any Docket No. 44924-509900 Doc No. 1779897.1
Sog.(D)	nanana Manana	General Aced :	Model Gode	Homologous Cops	Homologous Guston Kismo
1205	4640	Al229404	x,aa		
1206	23563	Al229421	1		MAP kinase-activated protein kinase 2 mitogen-activated protein kinase- activated protein kinase 3
1207	15426	Al229497	s		NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10 (22kD, PDSW)
1208	15193	AI229508	bb		Deta Subcomplex, To (22kb, 1 b3vv)
1209	19243	AI229638	x		thymidine kinase 1, thymidine kinase 1, soluble
1210	23078	AI229647	р		
1211	3099	A1229680	o		NADH dehydrogenase (ubiquinone) Fe S protein 3 (30kD) (NADH-coenzyme Q reductase)
1212	19508	AI229698	bb		a reductase)
1213	13977	A1229707	x		EST, Moderately similar to 138369 beta tubulin [H.sapiens], EST, Weakly similar to 138369 beta-tubulin [H.sapiens], EST, Weakly similar to 1282, EST, Weakly similar to TUBULIN BETA-5 CHAIN [M.musculus], ESTs, Highly similar to A25113 tubulin beta chain 15 - rat [R.norvegicus], FK506-binding protein 1A (12kD), RIKEN cDNA 2310061K05 gene, RIKEN cDNA 2410129E14 gene, tubulin, beta 2, tubulin, beta 5, tubulin, beta polypeptide
					quinolinate phosphoribosyltransferase
1214	23983	Al229708	L,		(nicotinate-nucleotide pyrophosphorylase (carboxylating))
	2688	Al229793	e		pyrophiospholylase (dereoxylating)/
1216	13874	Al229832	9		
1217	12587	Al229979	General		ESTs, Weakly similar to MOT2 MOUSE MONOCARBOXYLATE TRANSPORTER 2 [M.musculus], monocarboxylate transporter, monocarboxylate transporter 4, solute carrier 16 (monocarboxylic acid transporters), member 8, solute carrier family 16 (monocarboxylic acid transporters), member 3, solute carrier family 16 (monocarboxylic acid transporters), member 7, solute carrier family 16 (monocarboxylic acid transporters), member 7, solute carrier family 16 (monocarboxylic acid transporters), member 8
	20591 24042	AI229993 AI230002	l,m a,b,d,General		·
1220	13880	A1230042	, , , , , , , , , , , , , , , , , , ,	•	EST, Highly similar to CCAA MOUSE VOLTAGE-DEPENDENT P/Q-TYPE CALCIUM CHANNEL ALPHA-1A SUBUNIT [M.musculus], ESTs, Weakly similar to CCAA MOUSE VOLTAGE-DEPENDENT P/Q-TYPE CALCIUM CHANNEL ALPHA-1A SUBUNIT [M.musculus], Homo sapiens mRNA; cDNA DKFZp434M0223 (from clone DKFZp434M0223); partial cds, Mus musculus calcium channel mRNA, complete cds, calcium channel, P/Q type, alpha 1A, calcium channel, voltage-dependent, alpha 1G subunit, two-pore channel 1, homolog
					NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, NADH
					dehydrogenase (ubiquinone) 1 alpha

1	Carl de De tod	<u>komořáčanstv</u>	notations :	1. 1940年 1970年	Aily, Docker No. 44921-5959WC Doc. No. 1799597.1
Seg. (D)	Domilliter	Coremit Acel Rol Son ID No.	Mocal Godo #	Handlegove Cane Name 200	Konologous Chair Kano
					ESTs, Highly similar to E2BE RAT TRANSLATION INITIATION FACTOR EIF-2B EPSILON SUBUNIT [R.norvegicus], HSPC028 protein, RIKEN cDNA 1200015E15 gene, Rattus norvegicus initiation factor eIF-2Be mRNA, complete cds, basic leucine-zipper protein BZAP45, eukaryotic translation initiation factor 2B, subunit 5 (epsilon, 82kD),
1222	3652	AI230113	General		expressed sequence C81315 EST, Weakly similar to ENPL_HUMAN ENDOPLASMIN PRECURSOR (H.sapiens), ESTs, Highly similar to HS9B RAT HEAT SHOCK PROTEIN HSP 90-BETA [R.norvegicus], ESTs, Weakly similar to ENPL_HUMAN ENDOPLASMIN PRECURSOR (H.sapiens), Homo sapiens mRNA;
4000	40550				cDNA DKFZp564F053 (from clone DKFZp564F053), RIKEN cDNA 1810014B01 gene, RIKEN cDNA 2410002K23 gene, expressed sequence C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1, tumor rejection antigen (gp96)
1223	18650	AI230121			1, tumor rejection antigen gp96 ESTS, Moderately similar to CHD3_HUMAN CHROMODOMAIN HELICASE-DNA-BINDING PROTEIN 3 [H.sapiens], chromodomain helicase
1224	13025	Al230173	c		DNA binding protein 3 ESTs, Highly similar to A47327 selenoprotein P precursor (H.sapiens),
1225	4280	A1230247	z	selenoprotein P, plasma, 1	selenoprotein P, plasma, 1
1226	18528	A1230284	General	sectioprotein 1, plasma, 1	Homo sapiens, clone IMAGE:3845253,
1227	7084	AI230362	p		mRNA, partial cds
1228	20895	AI230549	b,n		
1229	12961	AI230554	General		
1230	15636	AI230616	r	·	EST, Moderately similar to GALECTIN- 1 [R.norvegicus], Human HL14 gene encoding beta-galactoside-binding lectin, 3' end, clone 2, RIKEN cDNA 2200008F12 gene, beta-galactoside- binding lectin, lectin, galactose binding, soluble 1, lectin, galactoside- binding, soluble, 1 (galectin 1), lectin, galactoside-binding, soluble, 2 (galectin 2)
1231	4121	AI230647	j,m		
1232	14388	A1230702	General		DNA segment, Chr 17, ERATO Doi 441, expressed, hematological and neurological expressed 1
1233	18529	AI230716	x,General		
1200			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		EST, Weakly similar to JW0105 synaptojanin 2 alpha protein - mouse [M.musculus], ESTs, Weakly similar to 2204390A synaptojanin [R.norvegicus], ESTs, Weakly similar to JW0105 synaptojanin 2 alpha protein - mouse [M.musculus], expressed sequence AA675315, inositol polyphosphate-5-phosphatase, 75kD, putative phosphatase,
1234	13618	AI230724	General		suppressor of actin 1, synaptojanin 2
1235	8304	AI230746	cc		

TABUE 8	# KOWAN	HOMOLOGUEAN	enometons		Ally, Doctol No. 44921-5039W0 Doc. No. 1793397.1
Seq. ID No.	Dalera (tileas)	Condenk Acel Rol Sog. Id No.	Model Gode	Homologous Care	Homologous Cluster Name
		AI230773		MADE V 5.1. *	prometely experience we have
1236 1237	14430	Al230773	e c,k,x		
1237	14430	A12307 30	C, N, X		Alg5, S. cerevisiae, homolog of,
1238	16627	Al230822	bb		dolichyl-phosphate mannosytransferase polypeptide 1, catalytic subunit
1239	3125	AI231028	General k		DNA segment, Chr 10, ERATO Doi 398, expressed, ESTs, Weakly similar to PTNL RAT PROTEIN TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 21 [R.norvegicus], Homo sapiens, Similar to erythrocyte membrane protein band 4.1-like 3, clone MGC:12343 IMAGE:4044866, mRNA, complete cds, Mus muscullus adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330430110, full insert sequence, Rattus norvegicus protein tyrosine phosphatase 2E (PTP2E) mRNA, complete cds, erythrocyte membrane protein band 4.1-like 1, erythrocyte membrane protein band 4.1-like 3, erythrocyte protein band 4.1-like 3, erythrocyte protein band 4.1-like 1, erythrocyte protein band 4.1-like 3, protein tyrosine phosphatase, non-receptor type 21
1240	20846	A1221140			EST, Highly similar to 60S RIBOSOMAL PROTEIN L23A [R.norvegicus], ESTs, Highly similar to RL2B_HUMAN 60S RIBOSOMAL PROTEIN L23A [H.sapiens], ribosomal protein L23a
1241		AI231140	P	<del></del>	protein L23a
1242	6743 26292	AI231219	d		
1244		AI231391	k		
1245	12343	AI231433	w	<del></del>	
1246	7337	AI231465	aa		
1248	8004	AI231506  AI231532	General j.I		ESTs, Moderately similar to Z183_HUMAN ZINC FINGER PROTEIN 183 [H.sapiens], zinc finger protein 183 (RING finger, C3HC4 type) BCL2-associated athanogene 3, Bcl2- associated athanogene 3, RIKEN cDNA 1600025G07 gene, RIKEN
1249	15171	Al231792	g		cDNA 2410112I15 gene
1250	6193	AI231797	li		
1252	14227	AI231999	u		RIKEN cDNA 2810411G23 gene, tumor protein D52-like 1 EST, Moderately similar to
'		I	I		EF1D HUMAN ELONGATION
1253	24501	A1232006	w.y.bb g.q.z.cc.General		FACTOR 1-DELTA [H.sapiens], ESTs, Weakly similar to EF1D_HUMAN ELONGATION FACTOR 1-DELTA [H.sapiens], eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein), hypothetical protein FLJ20897

)	The second	HOMOROGAE V			: ATTY: Docket No. 44221-5039WG
339, [D]. No.	l contider	Conbank Acel Reil Seg: 10 No.	Mocell@ode	Momologous Come Memologous Come	Homologious Cluster Name
					ESTs, Highty similar to Human Translation Initiation Factor Eif1, Nmr, 29 Structures [H.saplens], RIKEN cDNA 1500010M16 gene, RIKEN cDNA 3110001N14 gene, putative translation initiation factor, suppressor of initiator codon mutations, related
1255	19094	AI232021	n,General		sequence 1 (S. cerevisiae)
1256	14020	AI232076	u		
1257	6726	AI232157	d		
1258	11549	Al232174	l,m		
1259	23125	A1232266	j,s		
1260	2085	Al232270	bb		
1261	2913	Al232272	0		
1262	14304	AI232281	g - bb Coineal		
1263	15955	A1232294	u,bb,General		DKFZP566H073 protein, Homo saplens chromosome 19, cosmid R31343, RIKEN cDNA 1700065B19 gene, RIKEN cDNA 5730408C10 gene, likely ortholog of mouse g1- related zinc finger protein, ring finger
1264	15122 4716	A1232303 A1232313	у	purinergic receptor P2X, ligand-gated ion channel 4, purinergic receptor P2X, ligand-gated ion channel, 4	protein 13, zinc finger protein 103 purinergic receptor P2X, ligand-gated ion channel 4, purinergic receptor P2X ligand-gated ion channel, 1, purinergic receptor P2X, ligand-gated ion channel, 4
1266	15246	AI232332	t,u		
1267	24321	Al232340	0	stromal cell derived factor 1, stromal cell-derived factor 1	stromal cell derived factor 1, stromal cell-derived factor 1
1268	16172	Al232341	d		
1269	11411	A1232346	h		
1270	19287	Al232379	ſ	platelet derived growth factor receptor, alpha polypeptide, platelet- derived growth factor receptor, alpha polypeptide	
1271 1272	5601 14051	Al232461 Al232489	n,General		Flavin-containing monooxygenase 1, flavin containing monooxygenase 1, flavin containing monooxygenase 2, flavin containing monooxygenase 3, flavin containing monooxygenase 4, hypothetical protein PRO1257
	1.7001		,,		ESTs. Moderately similar to A27340
	1				complement C7 precursor [H.sapiens],
1273	5572	AI232490	i,t		complement component 7
1274	11157	AI232494	cc		A amount and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second
1275	8709	A1232534			DnaJ (Hsp40) homolog, subfamily B, member 3, DnaJ (Hsp40) homolog, subfamily B, member 6, ESTs, Moderately similar to HSJ2_HUMAN DNAJ PROTEIN HOMOLOG 2 [H.sapiens], ESTs, Weakly similar to HSJ2_HUMAN DNAJ PROTEIN HOMOLOG 2 [H.sapiens], Homo sapiens, clone IMAGE:3930327, mRNA, partial cds, RIKEN cDNA 2810451A06 gene, expressed sequence AU020082
1276	20350	AI232552	j.v.y		
1277	14069	AI232631	е		
1278	4440	AI232643			

TABLES	K THOMAN	<u>Konorogás v</u>	KOTATIONS.		Ally, Docket No. 44221-2133 Doc. No. 177333
Seg, (D) No. 1	identifier	Condeni: Acel: Rel Sog. (D No.	Model Gode	Mamodagous Cara Mamodagous Cara	Homologovs Cluster Name
					2,4-diencyl CoA reductase 1,
					mitochondrial, 2,4-dienoyl CoA reductase 2, peroxisomal, ESTs.
		l			Weakly similar to S11021 2,4-dieno
					CoA reductase [R.norvegicus], Fability
					(beta-ketoacyl-[acyl-carrier-protein)
					reductase, E coll) like, H2-K region
					expressed gene 6, Homo sapiens
			1		AS10 protein mRNA, partial cds, Mu
					musculus, clone MGC:6971
					IMAGE:3154595, mRNA, complete
		İ			cds, RIKEN cDNA 0610039E24 gen
					RIKEN cDNA 1810026B04 gene,
					carbonyl reductase, oxidoreductase
	ļ	}			UCPA, peroxisomal trans 2-enoyl C
					reductase; putative short chain alco
279	17695	AI232784	е		dehydrogenase
280	15796	AI232874	V Canada		
281	12467	AI232924	General		ESTs. Highly similar to 140636 DNA
					ESTs, Highly similar to 149636 DNA- binding protein - mouse [M.musculu
					ESTs, Moderately similar to 149636
		]			DNA-binding protein - mouse
					[M.musculus], ESTs, Weakly similar
		ļ			OZF HUMAN ZINC FINGER
					PROTEIN OZF [H.sapiens], RIKEN
					cDNA 2310011F05 gene, pancreas
					zinc finger protein, zinc finger protei
					260, zinc finger protein 36 (KOX 18)
					zinc finger protein 63, zinc finger
282	12873	AI232984	i		protein 97
283	5355	Al233031	r		
284	18794	AI233121	С		
					DNA segment, Chr 17, human
	,				D6S81E 1, ESTs, Highly similar to
					S33681 translation initiation factor e
					4A.I [H.sapiens], HLA-B associated
					transcript 1, Human clone 23933
					mRNA sequence, eukaryotic
	9				translation initiation factor 4A, isofor
					translation initiation factor 4A, isofor 1, mitochondrial DEAD-box
205		01222147	h a Ganaral		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helica:
	3823 11967	Al233147 Al233155	b.g.General		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box
286	11967	AI233155	c,k,General		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helica:
286 287			c,k,General d		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helica:
286 287 288	11967 11561	AI233155 AI233182	c,k,General		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helica: DECD variant of DEAD box family
286 287 288 289	11967 11561 3471	AI233155 AI233182 AI233183	c,k,General d g i		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helica: DECD variant of DEAD box family
286 287 288 289 290	11967 11561 3471 21948	Al233155 Al233182 Al233183 Al233191	c,k,General d		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helica: DECD variant of DEAD box family
286 287 288 289 290	11967 11561 3471 21948 13598	Al233155 Al233182 Al233183 Al233191 Al233194	c,k,General d g i		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helica: DECD variant of DEAD box family
286 287 288 289 290	11967 11561 3471 21948 13598	Al233155 Al233182 Al233183 Al233191 Al233194	c,k,General d g i		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helica: DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL
286 287 288 289 290	11967 11561 3471 21948 13598	Al233155 Al233182 Al233183 Al233191 Al233194	c,k,General d g i		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicar DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR
286 287 288 289 290	11967 11561 3471 21948 13598	Al233155 Al233182 Al233183 Al233191 Al233194	c,k,General d g i		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicar DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epidem
286 287 288 289 290	11967 11561 3471 21948 13598	Al233155 Al233182 Al233183 Al233191 Al233194	c,k,General d g i		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicar DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epidem growth factor receptor, formerly avia
286 287 288 289 290	11967 11561 3471 21948 13598	Al233155 Al233182 Al233183 Al233191 Al233194	c,k,General d g i		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicar DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epidem growth factor receptor, formerly avial erythroblastic leukemia viral (v-erbE
286 287 288 289 290	11967 11561 3471 21948 13598	Al233155 Al233182 Al233183 Al233191 Al233194	c,k,General d g i		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helica: DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR (H. sapiens), Epidem growth factor receptor, formerly avia erythroblastic leukemia viral (v-erbe oncogene homolog (Erbb1), avian
286 287 288 289 290	11967 11561 3471 21948 13598	Al233155 Al233182 Al233183 Al233191 Al233194	c,k,General d g i		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicat DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epidem growth factor receptor, formerly avia erythroblastic leukemia viral (v-erba oncogene homolog (Erbb1), avian erythroblastosis oncogene B 3,
285 286 287 288 289 290 291	11967 11561 3471 21948 13598	Al233155 Al233182 Al233183 Al233191 Al233194	c,k,General d g i		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicat DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epiderm growth factor receptor, formerly avia erythroblastic leukemia viral (v-erba oncogene homolog (Erbb1), avian erythroblastosis oncogene B 3, epidermal growth factor receptor,
286 287 288 289 290	11967 11561 3471 21948 13598	Al233155 Al233182 Al233183 Al233191 Al233194	c,k,General d g i		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helica: DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epiderm growth factor receptor, formerly avia erythroblastic leukemia viral (v-erbe oncogene homolog (Erbb1), avian erythroblastosis oncogene B 3, epidermal growth factor receptor, epidermal growth factor receptor
286 287 288 289 290 291	11967 11561 3471 21948 13598 15552	AI233155 AI233182 AI233183 AI233191 AI233194 AI233195	c.k,General d 9 i g.p.y y		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicat DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epiderm growth factor receptor, formerly avia erythroblastic leukemia viral (v-erbe oncogene homolog (Erbb1), avian erythroblastosis oncogene B 3, epidermal growth factor receptor, epidermal growth factor receptor (avian erythroblastic leukemia viral vir
286 287 288 289 290 291	11967 11561 3471 21948 13598 15552	A1233155 A1233182 A1233183 A1233191 A1233194 A1233195	c.k,General d g g.p.y y		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helica: DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epiderm growth factor receptor, formerly avia erythroblastic leukemia viral (v-erbe oncogene homolog (Erbb1), avian erythroblastosis oncogene B 3, epidermal growth factor receptor, epidermal growth factor receptor
286 287 288 289 290 291	11967 11561 3471 21948 13598 15552 17907	AI233155 AI233182 AI233183 AI233191 AI233194 AI233195 AI233295	c.k.General d g j i g.p.y y		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicat DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epiderm growth factor receptor, formerly avia erythroblastic leukemia viral (v-erbe oncogene homolog (Erbb1), avian erythroblastosis oncogene B 3, epidermal growth factor receptor, epidermal growth factor receptor (avian erythroblastic leukemia viral vir
286 287 288 289 290 291	11967 11561 3471 21948 13598 15552 17907 14111 12894	AI233155 AI233182 AI233183 AI233191 AI233194 AI233195  AI233224 AI233224 AI233269 AI233365	c.k,General d g i g.p.y y		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicat DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epiderm growth factor receptor, formerly avia erythroblastic leukemia viral (v-erbe oncogene homolog (Erbb1), avian erythroblastosis oncogene B 3, epidermal growth factor receptor, epidermal growth factor receptor (avian erythroblastic leukemia viral vir
286 287 288 289 290 291 291 292 293 294 295	11967 11561 3471 21948 13598 15552 17907 14111 12894 7161	AI233155 AI233182 AI233183 AI233191 AI233194 AI233195  AI233224 AI233229 AI233365 AI233407	c.k,General d g i g.p.y y		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicat DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epiderm growth factor receptor, formerly avia erythroblastic leukemia viral (v-erb8 oncogene homolog (Erbb1), avian erythroblastosis oncogene B 3, epidermal growth factor receptor, epidermal growth factor receptor (avian erythroblastic leukemia viral vir
286 287 288 289 290 291	11967 11561 3471 21948 13598 15552 17907 14111 12894	AI233155 AI233182 AI233183 AI233191 AI233194 AI233195  AI233224 AI233224 AI233269 AI233365	c.k,General d g i g.p.y y		translation initiation factor 4A, isofor 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicat DECD variant of DEAD box family putative receptor protein  EST, Moderately similar to EGFR_HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR PRECURSOR [H.sapiens], Epiderm growth factor receptor, formerly avia erythroblastic leukemia viral (v-erb8 oncogene homolog (Erbb1), avian erythroblastosis oncogene B 3, epidermal growth factor receptor, epidermal growth factor receptor (avian erythroblastic leukemia viral vir

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1299	3075	AI233494 AI233530	u,aa General		oxidase (cytochrome c) assembly 1- like
1300	18900	Al233570	General		EST, Moderately similar to S56108 26S proteasome regulatory complex chain p31 [H.sapiens], proteasome (prosome, macropain) 26S subunit, non-ATPase, 8
1302	7888	AI233583	General		Homo sapiens, clone MGC:14993 IMAGE:3613406, mRNA, complete cds, arginyl-IRNA synthetase
1303	16709	AI233602	General	adenosine kinase	adenosine kinase, expressed sequence Al255373
1304	5163	AI233712	у		protein phosphatase 1D magnesium- dependent, delta isoform coatomer protein complex, subunit
1305	7243	A 233717	General		alpha, embryonic ectoderm development
1306	3816	Al233729	g		Homo sapiens cDNA FLJ10203 fis, clone HEMBA1004930, moderately similar to 26S PROTEASOME SUBUNIT S5B, proteasome (prosome, macropain) 26S subunit, non-ATPase, 5
					Aldehyde reductase 1 (low Km aldose reductase) (5.8 kb Pstl fragment, probably the functional gene), EST, Highly similar to Aldose Reductase (E.C.1.1.21) [H.sapiens], ESTs, Moderately similar to ALDOSE REDUCTASE [R.norvegicus], ESTs, Moderately similar to ALDOSE REDUCTASE-RELATED PROTEIN 2 [M.musculus], Homo sapiens, Similar to RIKEN cDNA 1110018J12 gene, clone IMAGE:3865164, mRNA, partial cds, RIKEN cDNA 2310005E10 gene,
					aldo-keto reductase family 1, member A4 (aldehyde reductase), aldo-keto reductase family 1, member B1 (aldose reductase), aldo-keto reductase family 1, member B10 (aldose reductase), aldo-keto reductase family 1, member B3 (aldose reductase), fibroblast growth
1307 1308	13023	AI233740 AI233743	d,h,General g		factor regulated protein  Golgi-associated, gamma-adaptin ear
1309 1310	7469 7804	AI233767 AI233771	cc		containing, ARF-binding protein 2
1311 1312	13563 2154	AI233773 AI233818	e k,cc	A kinase (PRKA) anchor protein (gravin) 12	
1313	16616	Al234079	h	process (grown) 12	EST, Moderately similar to CYSR RAT CYSTEINE-RICH PROTEIN 1 [R.norvegicus], ESTs, Weakly similar to CYSR RAT CYSTEINE-RICH PROTEIN 1 [R.norvegicus], ESTs, Weakly similar to S12658 cysteine-rich protein [H.sapiens], cysteine and glycine-rich protein 1, cysteine rich protein, cysteine-rich protein 2, cysteine-rich protein 3, epithelial protein lost in neoplasm beta, thymus
1314 1315	13393 7071	AI234100 AI234162	a,d,General r		LIM protein

TABLES	RUMANI	HOMOLOGUEAX	NOTATIONS		, Amy, Docket No. 44921-5039WO
839, ID : No. :	ldeniller	Confirm's Access Ref. Seq. ID No.	(Wastal Casta Ti	Conce every cone with	Doc. No. 1799997.1 Hamologous Cluster Namo
	14677	AI234620	General	ixems .1	mane egene erena rente
1316	4443	AI234629	m		<u></u>
1318	22453	AI234678	b	<del></del>	
1319	23964	AI234748	t,General	<del></del>	
1320	19581	AI234753	f		•
1321	22152	A1234822	o.General	RAS, dexamethasone-induced 1	Harvey rat sarcoma oncogene, subgroup R, RAP1B, member of RAS oncogene family, RAP2B, member of RAS oncogene family, RIKEN cDNA 2610016H24 gene, RIKEN cDNA 4021402C18 gene, RIKEN cDNA 4930526B11 gene, RIKEN cDNA 5830461H18 gene, expressed sequence AI573426, rap2A-like protein, ras-related protein
1322	18942	Al234865	d		product, vocation product
1323	22662	A1234939	aa		ATPase, H+ transporting, lysosomal (vacuolar proton pump), subunit 1, EST, Weakly similar to I54197 hypothetical protein [H.sapiens], ESTs, Weakly similar to VAS1_RAT VACUOLAR ATP SYNTHASE SUBUNIT 31 PRECURSOR (V-ATPASE S1 SUBUNIT) (V-ATPASE S1 ACCESSORY PROTEIN) (V-ATPASE AC45 SUBUNIT) (C7-1 PROTEIN) [R.norvegicus], Homo sapiens cDNA FL112563 fis, clone NT2RM4000820, weakly similar to VACUOLAR ATP SYNTHASE SUBUNIT AC45 PRECURSOR (EC 3.6.1.34)
4004			- 01		ESTs, Moderately similar to CB80_HUMAN 80 KDA NUCLEAR CAP BINDING PROTEIN [H.sapiens], Homo sapiens cDNA FLJ11599 fis, clone HEMBA1003879, 190420
1324	3875	AI235047	o,General	<b> </b>	binding protein subunit 1, 80kD
1325	19479	AI235135 AI235192	<u>o</u>		ATP-binding cassette, sub-family F (GCN20), member 1, ATP-binding cassette, sub-family F (GCN20), member 2, hypothetical protein FLJ11198
1327	14718	AI235210	е		COT Madamataly similar to Title Cat
1328	15004	AI235224	b,General	·	EST, Moderately similar to TIM1 RAT METALLOPROTEINASE INHIBITOR 1 PRECURSOR [R.norvegicus], EST, Weakly similar to TIM1 RAT METALLOPROTEINASE INHIBITOR 1 PRECURSOR [R.norvegicus], tissue inhibitor of metalloproteinase, tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor)
1329	6632	AI235277	v		COT- Highly similar to Access T. "
1330 1331	14722 1462	A1235284 A1235585	x,z u,General		ESTs, Highly similar to A60592 T-cell surface glycoprotein E2 precursor [H.sapiens], Homo sapiens cDNA FLJ13471 fis, clone PLACE1003566, antigen identified by monoclonal antibodies 12E7, F21 and O13, hypothetical protein DKFZp761H2024
1332	21061	Al235631	I.m		
1332	141001	MIZ3303 I	[1,11]	L	<u> </u>

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				MAD (mothers against decapentaplegic, Drosophila) homolog 4, MAD homolog 4	MAD (mothers against decapentaplegic, Drosophila) homolog
1333	14665	AI235646	m	(Drosophila)	4
1334	19940	Al235689	General		
1335	5698	AI235692	u		· · · · · · · · · · · · · · · · · · ·
					ESTs, Weakly similar to LDVR RAT VERY LOW-DENSITY LIPOPROTEIN RECEPTOR PRECURSOR [R.norvegicus], RIKEN cDNA 4933405111 gene, Very low density lipoprotein receptor, nidogen 2, secreted modular calcium-binding protein 1, secreted modular calcium-binding protein 2, very low density
1336	23745	Al235732	k		lipoprotein receptor ESTs, Highly similar to A56716 aromatic ester hydrolase [H.sapiens], biphenyl hydrolase-like (serine hydrolase; breast epithelial mucin-
1337	11164	Al235739	General		associated antigen)
1338	5212	Al235745	d		
1339	14768	Al235912	h		
1340	14776	AI235950	m		
1341	3091	AI236027	n,General		
1342	14861	Al236045	٢		
1343	14862	A 236048	e		
1344	16943	A1236097			Integral membrane protein 2 B, integra membrane protein 2B, integral membrane protein 3
1345	8336	AI236101	p		Internorana protein s
1345	23230	Al236146	<u>'</u>		
1347	22855	AI236150	e		Down syndrome critical region gene 5
1348	14594	AI236152	:		Down syndioine chacar region gene 3
1349	18406	AI236168	,		
1350	15051	AI236332	General		ESTs, Weakly similar to ATDA_HUMAN DIAMINE ACETYLTRANSFERASE [H.sapiens], RIKEN cDNA 2610016A03 gene, RIKEN cDNA 4930404K22 gene, spermidine/spermine N1-acetyl transferase, spermidine/spermine N1-acetyltransferase
1351	19298	A1236338	bb		ESTs, Highly similar to NHPX RAT NHP2/RS6 FAMILY PROTEIN YEL026W HOMOLOG [R.norvegicus], RIKEN cDNA 2410130M07 gene, non-histone chromosome protein 2 (S. cerevisiae)-like 1, nucleolar protein family A, member 2 (H/ACA small nucleolar RNPs), sperm specific antigen 1

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මිලෝ (ID) ග්රේ	licentities.	ConBenk Accd : Ref. Seq. ID No.	Model Gode	Hemologous Gené Neuro	Guidh ar Chairle Chairle (Handon Chairle)
					ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Hu antigen D), EST, Highly similar to 2201474A inducible poly(A)-binding protein [H.sapiens], EST, Weakly similar to 2201474A inducible poly(A)-binding protein [H.sapiens], ESTs, Highly similar to HUD RAT PARANEOPLASTIC ENCEPHALOMYELITIS ANTIGEN HUD HOMOLOG [R.norvegicus], ESTs, Moderately similar to HUD RAT PARANEOPLASTIC ENCEPHALOMYELITIS ANTIGEN HUD HOMOLOG [R.norvegicus], ESTs, Moderately similar to POLYADENYLATE-BINDING PROTEIN 1 [M.musculus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933407N23, full insert sequence, RIKEN cDNA 4932702K14 gene, poly A binding protein, cytoplasmic 1, poly(A)-binding protein, cytoplasmic 4 (Inducible form), siah binding protein 1; FBP interacting repressor; pyrimidine tract binding splicing factor; Ro ribonucleoprotein-
1352	10667	AI236366	b		binding protein 1
1353	10774	Al236397	f		
1354	9407	AI236402	aa		
	26335	Al236460_	General		
1356	17950	Al236590	t,General		
1357	18259	Al236601	h,v		
1358	11445	AI236613	j.y		
1359	17248	AI236635	0,88		S-phase kinase-associated protein 1A (p19A), transcription elongation factor B (SIII), polypeptide 1 (15 kDa),-like, transcription elongation factor B (SIII), polypeptide 1-like
1360	16859	AI236753	t,General		
	5208 24388	Al236754 Al236772	g e.General		chromosome 8 open reading frame 1
1363	15850	AI236772	n,v,w		EST, Highly similar to HS9B RAT HEAT SHOCK PROTEIN HSP 90-BETA [R.norvegicus], EST, Weakly similar to HHMS84 heat shock protein 84 - mouse [M.musculus], ESTs, Highly similar to T46243 hypothetical protein DKFZp761K0511.1 [H.sapiens], expressed sequence AL022974, expressed sequence C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1
1364	14800	Al236856	w		Joseph Mode Chock protein, or Rose 1
1366	11404	Al237002	m_		Human DNA sequence from clone RP5-1057D4 on chromosome 20 Contains a spermidine synthase (SPDSY) pseudogene, a CpG island, ESTs, STSs and GSSs, spermidine synthase
					hepatitis B virus x-interacting protein
1367	18151	Al237212	o,General		(9.6kD)
1368	21653	AI237535	t,General		

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1369	11208	A1237586	z		EST, Weakly similar to JC1241 beta- Interferon-induced protein - rat [R.norvegicus], ESTs, Moderately similar to JC1241 beta-interferon- induced protein - rat [R.norvegicus], RIKEN cDNA 1110036C17 gene, RIKEN cDNA 4933438K12 gene, interferon induced transmembrane protein 2 (1-8D) KIAAO101 gene product
1370	21893	AI237713	i,k,aa r		KIAAU101 gene product
1371	3467	Al237724	General		ESTs, Highly similar to MXI1 RAT MAX INTERACTING PROTEIN 1 [R.norvegicus], MAX dimerization protein, MAX-interacting protein 1, Max dimerization protein, Max interacting protein 1
1373	25840	Al638972	u		more and protein t
1374	17108	Al639017	n		EST, Highly similar to S30385 G9a protein [H.sapiens], ESTs, Weakly similar to T17453 ERG-associated protein ESET - mouse [M.musculus], HLA-B associated transcript 8, SET domain, bifurcated 1, expressed sequence C77070, hypothetical protein FLJ12879, suppressor of variegation 3-9 (Drosophila) homolog 2; hypothetical protein FLJ123414
		-		mini chromosome maintenance deficient 6 (S. cerevisiae), minichromosome maintenance deficient	mini chromosome maintenance deficient 6 (S. cerevisiae), minichromosome maintenance
1375	16676	AI639082	c,k,x	(mis5, S. pombe) 6	deficient (mis5, S. pombe) 6
1376	12400	Al639107	k		
1377	19952	Al639108	q,v		
1379	25907	AI639167	o,w		
1381	18533	Al639231	n .	•	hypothetical protein, hypothetical protein FLJ20333 ESTs, Moderately similar to dJ63G5.3
	40050				[H.sapiens], RIKÉN cDNA 1700034K16 gene, RIKÉN cDNA
1382	18353 15330	AI639233	t,aa General	decorin	5530600M07 gene, decorin
1384 1385	20026	Al639285 Al639354	general	<del></del>	
1386	25971	Al639365	r		
1388	19152	AI639387	u,General		
					EST, Weakly similar to CAQC RAT CALSEQUESTRIN, CARDIAC MUSCLE ISOFORM PRECURSOR [R.norvegicus], calsequestrin 1, calsequestrin 1 (fast-twitch, skeletal muscle), calsequestrin 2, calsequestrin
1390	18338	A1639422	y		2 (cardiac muscle) EST, Moderately similar to A Chain A, Mdm2 Bound To The Transactivation Domain Of P53 (SUB 17-125 [H.sapiens], mouse double minute 2, human homolog of; p53-binding protein, transformed mouse 3T3 cell
1392	20082	AI639488	i,m		double minute 2
1394	20056	AI639504	a,bb,General		
1395	4713	Al639518	q		

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309. (D) No. 11	S 14150	ConBank Aced Rol Social No.	Model Code	Hamologova Cono Namo villa in the Cono	Komologous Cluster Nemo.
	14332	AJ001044	bb		EST, Moderately similar to T42215 zonadhesin - mouse [M.musculus], EST, Weakly similar to MUC2_HUMAN MUCIN 2 PRECURSOR [H.sapiens], Homo sapiens SIB 297 intestinal mucin (MUC3) mRNA, partial cds, RIKEN cDNA 3110056H04 gene, RIKEN cDNA 4931407G18 gene, Rattus norvegicus podocalyxin mRNA, complete cds, hepatitis A virus cellular receptor 1, hypothetical protein DKFZp434N185, lymphocyte antigen 64, mucin 1, transmembrane, mucin 2, Intestinal/tracheal, zonadhesin
1397	7602	AJ001929	k		EST, Weakly similar to CGHU3B
1209	0967	A 1005424			collagen alpha 3(IV) chain precursor, long splice form [H.sapiens], EST, Weakly similar to D40750 proline-rich protein PRB1/2S [H.sapiens], RIKEN cDNA 1190004M21 gene, RIKEN cDNA 2410150I18 gene, RIKEN cDNA 6330577E15 gene, expressed sequence AI551093, mitogenactivated protein kinase 7, murine leukemia viral (bmi-1) oncogene homolog, nemo-like kinase,
1398	9867	AJ005424	u		phospholipid scramblase 1 ESTs, Weakly similar to CLD7 MOUSE
1400	16351	AJ011811	General	claudin 7	CLAUDIN-7 (M.musculus), ESTs, Weakly similar to CLD7 RAT CLAUDIN 7 [R.norvegicus], claudin 10, claudin 15, claudin 16, claudin 7
				growth differentiation factor 15, prostate differentiation	
1401	20116	AJ011969	I,General	factor	
				· · · · · · · · · · · · · · · · · · ·	ESTs, Moderately similar to BMCP_HUMAN BRAIN MITOCHONDRIAL CARRIER PROTEIN-1 [H.sapiens], ESTs, Weakly similar to M2OM_HUMAN MITOCHONDRIAL 2-OXOGLUTARATE/MALATE CARRIER PROTEIN [H.sapiens], ESTs, Weakly similar to brain mitochondrial carrier protein BMCP1 [M.musculus], RIKEN cDNA 1810012H11 gene, expressed sequence AW108044, solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 10, solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10, solute carrier family 25 (mitochondrial carrier; ornithine transporter), member 15, solute carrier family 25 (mitochondrial carrier; omithine transporter), member 15, solute carrier family 25 (mitochondrial
1402	17635	AJ223355	v,w		carrier, oxoglutarate carrier), member 11, uncoupling protein 2, mitochondrial

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1403	18686	D00729	q	dodecenoyl-Coenzyme A delta isomerase (3,2 trans- enoyl-Coenyme A isomerase), dodecenoyl- Coenzyme A delta	ESTs, Highly similar to D3D2 RAT 3,2-TRANS-ENOYL-COA ISOMERASE, MITOCHONDRIAL PRECURSOR (R.norvegicus), Homo sapiens, Similar to dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), clone MGC:3903 IMAGE:3630566, mRNA, complete cds, dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A delta isomerase), dodecenoyl-Coenzyme A lsomerase), dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A delta isomerase)
					ESTs, Weakly similar to ODP2 RAT DIHYDROLIPOAMIDE ACETYLTRANSFERASE COMPONENT OF PYRUVATE DEHYDROGENASE COMPLEX [R.norvegicus], Mus musculus, clone IMAGE:3586777, mRNA, partial cds, Pyruvate dehydrogenase complex, lipoyl-containing component X; E3-binding protein, RIKEN cDNA 1600017E01 gene, RIKEN cDNA 4930529008 gene, dihydrolipoamide S acetyltransferase (E2 component of pyruvate dehydrogenase complex), dihydrolipoamide branched chain transacylase (E2 component of branched chain keto acid dehydrogenase complex; maple syrup urine disease), dihydrolipoamide
1404	5049	D10655	n.w		branched chain transacylase E2
1405	25257	D13623	į		
1405	15281	D13623	h		
1407	11434 1613 1728	D14076	x		EST, Moderately similar to DYN2 MOUSE DYNAMIN 2 [M.musculus], ESTs, Moderately similar to DYN2 MOUSE DYNAMIN 2 [M.musculus], KIAA0820 protein, dynamin 2
1408		D16479	q		
1409	3015	D16554	c,s,v,z	·	
1410	472	D26111	d,s,bb		
1412	9029	D29960	j.l	proteasome (prosome, macropain) subunit, alpha type 7, proteasome (prosome, macropain) subunit, alpha type, 7	EST, Highly similar to PROTEASOME SUBUNIT RC6-1 [R.norvegicus], EST, Highly similar to PSA7_HUMAN PROTEASOME SUBUNIT ALPHA TYPE 7 (PROTEASOME SUBUNIT RC6-1) (PROTEASOME SUBUNIT XAPC7) [H.sapiens], ESTs, Highly similar to PROTEASOME SUBUNIT RC6-1 [R.norvegicus], ESTs, Weakly similar to PSA7_HUMAN PROTEASOME SUBUNIT ALPHA TYPE 7 (PROTEASOME SUBUNIT RC6-1) (PROTEASOME SUBUNIT RC6-1) (PROTEASOME SUBUNIT RC7) [H.sapiens], Human DNA sequence from clone RP11-18014 on chromosome 9 Contains a proteasome subunit pseudogene, ESTs, STSs, GSSs and a CpG island, RIKEN cDNA 2410072D24 gene, proteasome (prosome, macropain) subunit, alpha type 7, proteasome (prosome, macropain) subunit, alpha type, 7

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1414	1485	D38222	y,z		PROTEIN-TYROSINE PHOSPHATASE-LIKE N PRECURSOR [H.sapiens], protein tyrosine phosphatase, receptor type, N, protein tyrosine phosphatase, receptor-type, N
1415	9135	D45247	s	proteasome (prosome, macropain) subunit, beta type 5, proteasome (prosome, macropain) subunit, beta type, 5	EST, Moderately similar to PRCE RAT PROTEASOME EPSILON CHAIN PRECURSOR [R.norvegicus], RIKEN cDNA 5830406J20 gene, proteasome (prosome, macropain) subunit, beta type 5, proteasome (prosome, macropain) subunit, beta type, 5
1416	16354	D50564	U		proteasome (prosome, macropain)
1417	1884	D50695	l,m,bb		26S subunit, ATPase, 4
1418	21147	D63772	General	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1, solute carrier family 1, member 1	Ŧ
- <u></u>					CDP-diacylglycerolinositol 3- phosphatidyltransferase
1419	826	D82928	f		(phosphatidylinositol synthase)
1420	25306	D84485	U		EST, Moderately similar to
1421	18867	D88250	*		MAS2_HUMAN MANNAN-BINDING LECTIN SERINE PROTEASE 2 PRECURSOR [H.sapiens], EST, Weakly similar to JC6554 probable serine proteinase [R.norvegicus], ESTs, Weakly similar to JC6554 probable serine proteinase [R.norvegicus], MASP-2 protein, complement component 1, r subcomponent, complement component 1, s subcomponent, mannan-binding lectin serine protease 1, mannan-binding lectin serine protease 2
1423	22543	H31117	r,v,General		procease 2
1424	12360	H31456	w		
1425	20514	H31489	h,j		
1426		H21610			DNA segment, Chr 16, Indiana University Medical 21, expressed, ESTs, Highly similar to JC5020 tetratricopeptide repeat protein [H.sapiens], ESTs, Moderately similar to JW0059 mtprd protein - mouse [M.musculus], PRO1880 protein, g1- related zinc finger protein, tetratricopeptide repeat domain, tetratricopeptide repeat domain 3
1426 1427	11358	H31610	h General		DKFZP586B1621 protein
1428	4360 9343	H31813	bb.General		EST, Moderately similar to COF1_HUMAN COFILIN, NON- MUSCLE ISOFOR [H.sapiens], cofilin 1 (non-muscle), cofilin 1, non-muscle, cofilin 2 (muscle), cofilin 2, muscle
1429	4386	H33093	h,w		
1430	4415	H33636	h		
1431	15374	H34186	I		ESTs, Weakly similar to IF39_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 9 [H.sapiens]

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	120	1.1			Dos. No. 1793397.1
Seq.ID; No.18-15	neillier	Conditions and a conditions and an area with a conditions and a conditions area area.	Model Codes	Honologous Cons	Homologovis Gluster Name
					ESTs, Highly similar to A23035 tubulin alpha chain (H.sapiens), tubulin alpha 1, tubulin alpha 2, tubulin alpha 3, tubulin alpha 6, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha,
1432 1433	17159 16260	J00797 J01878	u,General f		ubiquitous
1434	17284	J02827	bb	branched chain keto acid dehydrogenase E1, alpha polypeptide (maple syrup urine disease), branched chain ketoacid dehydrogenase E1, alpha polypeptide	
1435	15017	J03752	n		
1436	44	J03819	p,s	thyroid hormone receptor beta, thyroid hormone receptor, beta (avian erythroblastic leukemia viral (v-erb-a) oncogene homolog 2)	
_			• •	glutathione S-transferase	ESTs, Moderately similar to GLUTATHIONE S-TRANSFERASE YB1 [R.norvegicus], glutathione S-
1437	21014	J03914	e.r.General	M2 (muscle), glutathione S- transferase, mu 2	transferase M1, glutathione S- transferase, mu 1
				steroid 5 alpha-reductase 1, steroid-5-alpha- reductase, alpha polypeptide 1 (3-oxo-5	steroid-5-alpha-reductase, alpha
1438	20429	J05035	f	alpha-steroid delta 4- dehydrogenase alpha 1)	polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
1439	1247	J05181		glutamate-cysteine ligase,	glutamate-cysteine ligase, catalytic subunit
1440	10464	J05510	j.l,m.s.y,z n;u,General	inositol 1,4,5-triphosphate receptor 1, inositol 1,4,5-triphosphate receptor, type 1	ESTs, Highly similar to A55713 inositol 1,4,5-triphosphate receptor type 1 [H.sapiens], ESTs, Weakly similar to IP3R MOUSE INOSITOL 1,4,5-TRISPHOSPHATE-BINDING PROTEIN TYPE 1 RECEPTOR [M.musculus], expressed sequence A1528790, inositol 1,4,5-triphosphate receptor 1, inositol 1,4,5-triphosphate receptor, type 1
1441	20149	K03243	q		
1442	17758	K03249	q		ESTs, Highly similar to ECHP_HUMAN PEROXISOMAL BIFUNCTIONAL ENZYME [H.sapiens], encyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase
1443	381	L00124	w		
1444	2048	L00382	k,x		
1445 1447	10500 108	L04619 L14002	s P		
1448	25366	L14003	t		
1449	109	L14004	c,p		
1450 1451	20414 25369	L14323 L14937	General	phosphoinositide-specific phospholipase C-beta 1, phospholipase C, beta 1	ESTs, Highly similar to KIAA0581 protein [H.sapiens]
.701				2',3'-cyclic nucleotide 3' phosphodiesterase, cyclic	2',3'-cyclic nucleotide 3' phosphodiesterase, cyclic nucleotide
1452	16119	L16532	k	nucleotide phosphodiesterase 1 phosphofructokinase,	phosphodiesterase 1, hypothetical gene CG018

TABLES	: KAINAN	HONOLOGUEAL	NOTATIONS:		
329. [D] No E	ndimad)	ConBank Ace <i>l</i> Ref. Sog. ID Ko.	Model ලංග්ව	Momologous Game Marria	
-					ESTs, Highly similar to JC2055 6- phosphofructokinase [H.sapiens], ESTs, Weakly similar to JC2055 6- phosphofructokinase [H.sapiens], Mus musculus adult male stomach cDNA, RIKEN full-length enriched library, clone:2210403E17, full insert sequence, expressed sequence
1453	12058	L25387	h	phosphofructokinase, platelet	AA407869, phosphofructokinase, liver, B-type, phosphofructokinase, muscle, phosphofructokinase, platelet
				solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1, solute carrier	
1455	21146	L35558	General	family 1, member 1	
1456 1458	106 13682	L37203 L38482	w f,j,k,m,z		
1459	6405	L38615	p.,,K,m,Z	glutathione synthetase	
1461	15189	M11794	n,v	gistatriiorio oynisicase	
1462	17086	M13011	i		
1464	21053	M15481	o ·		
1465	25405	M18330	j,l		
1466	25415	M19648	a		
1468	14967	M22366	w		
1469	20481	M22631	bb		
1471	15048	M24542	q		UBIQUINOL-CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT, MITOCHONDRIAL PRECURSOR [R.norvegicus], EST, Weakly similar to UCRI_HUMAN UBIQUINOL-CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT, MITOCHONDRIAL PRECURSOR [H.sapiens], ESTs, Moderately similar to UCRI_HUMAN UBIQUINOL-CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT, MITOCHONDRIAL PRECURSOR [H.sapiens], Human DNA sequence from clone RP1-228J4 on chromosome 6 Contains a pseudogene similar to UQCRFS1 (ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1), ESTs, an STS and GSSs, RIKEN cDNA 4430402G14 gene, expressed sequence AI875505, ubiquinol- cytochrome c reductase, Rieske iron- sulfur polypeptide 1
				1, cytochrome P450,	Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, cytochrome P450, 4a14, cytochrome P450,
1472	20921	M29853	m	1	subfamily IVA, polypeptide 11
1473	1224	M31931	u		cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 13
1474	15579	M33648	9		
1474	15580	M33648	9		
			<u> </u>	<u> </u>	

		<u>Kovořácans vr</u>	exoltations ;		Airy, Docket No. 44921-5933009 Doc. No. 1793-597, 1
30g. ID . No. 144	denline)	Look Light Cool References	Model Gode	Homologous Com Namo	Honologous Cluster Name
					EST, Moderately similar to 60S RIBOSOMAL PROTEIN L35 [R.norvegicus], EST, Moderately similar to G01477 ribosomal protein L35 [H.sapiens], EST, Weakly similar to 60S RIBOSOMAL PROTEIN L35 [R.norvegicus], ESTs, Highly similar to G01477 ribosomal protein L35 [H.sapiens], Human DNA sequence from clone RP1-34P24 on chromosome 22 Contains a pseudogene similar to ribosomal protein L35, ESTs, STSs and GSSs, RIKEN cDNA 2410039E09 gene,
1475	17211	M34331	g,n,q,v		ribosomal protein L35
1476	20699	M35601	b,x,bb	fibrinogen, A atpha polypeptide	Homo sapiens clone HQ0582, expressed sequence Al303526, fibrinogen, A alpha polypeptide, fibrinogen, gamma polypeptide Homo sapiens clone HQ0582,
1476	20700	M35601	b,t,bb	fibrinogen, A alpha polypeptide	expressed sequence Al303526, fibrinogen, A alpha polypeptide, fibrinogen, gamma polypeptide H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14
1477 1479	9223 1585	M36151 M57728	j,m,y		genes, expressed sequence Al845868
1480	24844	M58040	c		Homo sapiens mRNA; cDNA DKFZp434M2227 (from clone DKFZp434M2227), Homo sapiens prostate-specific membrane antigen PSM mRNA, exon 6 alternative splice variant, partial cds, RIKEN cDNA 2610028K12 gene, folate hydrolase, transfermin receptor, transfermin receptor (p90, CD71), transfermin receptor 2
1481	25057	M58495	h		
1482	457	M60666	d,General	tropomyosin 1 (alpha), tropomyosin 1, alpha	ESTs, Moderately similar to alpha- tropomyosin slow [M.musculus], tropomyosin 4
1484 1485	5733 4198 4199	M81855 M83143	i,k,aa m	ATP-binding cassette, sub- family B (MDR/TAP), member 1, ATP-binding cassette, sub-family B (MDR/TAP), member 1B	ATP-binding cassette, sub-family B (MDR/TAP), member 1, ATP-binding cassette, sub-family B (MDR/TAP), member 10, ATP-binding cassette, sub family B (MDR/TAP), member 8, EST, Highly similar to MDR3 MOUSE MULTIDRUG RESISTANCE PROTEIN 3 [M.musculus], EST, Weakly similar to MDR1 RAT MULTIDRUG RESISTANCE PROTEIN 1 [R.norvegicus], ESTs, Weakly similar to MDR1 MOUSE MULTIDRUG RESISTANCE PROTEIN 1 [M.musculus] ESTs, Highly similar to A41734 beta- galactoside alpha-2,6-sialyltransferase [H.sapiens] ESTs, Highly similar to A41734 beta- galactoside alpha-2,6-sialyltransferase [H.sapiens]
					RAB13, member RAS oncogene family, RIKEN cDNA 0610007N03 gene, expressed sequence AW10775

TABLE	s chandin	Howorocate VI	NOTATIONS	275	
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Scq, ID . No.	refilmed)	Rol Sofie Dio.	Model Gode #	Honologova Cona	Monologous Cluster Name
					EST, Highly similar to AROMATIC-L-
			•		AMINO-ACID DECARBOXYLASE
					[R.norvegicus], EST, Moderately similar to AROMATIC-L-AMINO-ACID
					DECARBOXYLASE [R.norvegicus],
					Mus musculus 10 days embryo cDNA,
	•				RIKEN full-length enriched library, clone:2610109021, full insert
				dopa decarboxylase, dopa	sequence, dopa decarboxylase, dopa
				decarboxylase (aromatic L-	decarboxylase (aromatic L-amino acid
1487	1430	M8464B	General	amino acid decarboxylase)	decarboxylase)
1488	25467	M93297	С		SOTA Highly similar to NECO MOUSE
					ESTs, Highly similar to NTG3 MOUSE   SODIUM- AND CHLORIDE-
					DEPENDENT GABA TRANSPORTER
					3 [M.musculus], ESTs, Weakly similar
		, i			to NTG3_HUMAN SODIUM- AND
					CHLORIDE-DEPENDENT GABA TRANSPORTER 3 [H.sapiens],
					expressed sequence AA589632,
					solute carrier family 6
					(neurotransmitter transporter, GABA),
1489	729	M95762	a,y		member 13 DNA segment, Chr 9, ERATO Doi 25,
	,	•			expressed, Homo sapiens clone 23623
1					mRNA, partial cds, Homo sapiens,
					Similar to Acetyl-CoA acyltransferase,
					3-oxo acyl-CoA thiolase A,
					peroxisomal, clone MGC:18173 IMAGE:4155289, mRNA, complete
					cds, Homo sapiens, Similar to acetyl-
					Coenzyme A acyltransferase 1
			ł		(peroxisomal 3-oxoacyl-Coenzyme A
1		,			thiolase), clone MGC:23127 IMAGE:4908159, mRNA, complete
l					cds, RIKEN cDNA 0610011L04 gene,
ĺ				•	acetyl-Coenzyme A acyltransferase 1
	,				(peroxisomal 3-oxoacyl-Coenzyme A
					thiolase), expressed sequence Al255831, expressed sequence
	-			•	Al265397, t-complex protein 1, related
1490	23698	NM_012489	9		sequence 1
					DNA segment, Chr 9, ERATO Doi 25,
		. •			expressed, Homo sapiens clone 23623 mRNA, partial cds, Homo sapiens,
		ĺ			Similar to Acetyl-CoA acyltransferase,
					3-oxo acyl-CoA thiolase A,
			[		peroxisomal, clone MGC:18173
					IMAGE:4155289, mRNA, complete
					cds, Homo sapiens, Similar to acetyl- Coenzyme A acyltransferase 1
					(peroxisomal 3-oxoacyl-Coenzyme A
1					thiolase), clone MGC:23127
		1			IMAGE:4908159, mRNA, complete
	1				cds, RIKEN cDNA 0610011L04 gene, acetyl-Coenzyme A acyltransferase 1
			}		(peroxisomal 3-oxoacyi-Coenzyme A
l			]		thiolase), expressed sequence
		1			AI255831, expressed sequence
1490	23600	NM 012489	l.		Al265397, t-complex protein 1, related sequence 1
1490	23699	NM_012489	14		lacdaque i

TABLES	e (r@www	KONOLOGUEAN	axonațoxi		Aug. Doorel No. 44921-5939Wo Doc. No. 1793897.1
S09/ID-	lice and the	ConDonis Ace./	100 J	Homologous Cono	Every 13 states of the control of th
1491	7062	NM_012495	q	aldolase 1, A isoform, aldolase A, fructose- bisphosphate	EST, Moderately similar to ADHUA fructose-bisphosphate aldolase [H.sapiens], EST, Weakly similar to ADHUA fructose-bisphosphate aldolase [H.sapiens], EST, Weakly similar to 139435 fructose-bisphosphate aldolase [H.sapiens], ESTs, Moderately similar to aldolase A [M.musculus], Homo sapiens, aldolase 1, A isoform, clone MGC:18171 IMAGE:4155253, mRNA, complete cds, RIKEN cDNA 4933425L11 gene, aldolase 1, A isoform, aldolase 3, C isoform, aldolase A, fructose-bisphosphate
1431	7002	14W_012455	4	aldo-keto reductase family 1, member B1 (aldose reductase), aldo-keto reductase family 1,	uspriospriate
1492	15511	NM_012498	u	member B3 (aldose reductase)	·
1494	7427	NM_012515	General	benzodiazapine receptor (peripheral), benzodiazepine receptor, peripheral cholinergic receptor, muscarinic 3, cholinergic receptor, muscarinic 3,	Human DNA sequence from clone 34B21 on chromosome 6p12.1-21.1. Contains part of a gene for a novel protein with ZU5 domain similar to part of Tight Junction Protein ZO1 (TJP1) and UNC5 Homologs, the gene for a novel BZRP (peripheral benzodiazapine receptor (MBR,PBR, PBKS, IBP, Isoquinoline-binding protein)) LIKE protein, the gene for a novel protein similar to part of APOBEC1 (Phorbolin 1, Apollpoprotein B mRNA editing protein), and the NFYA gene for nuclear transcription factor Y, alpha (CCAAT-Binding transcription factor subunit B, CBF-B, CAAT-Box DNA binding protein subunit A). Contains ESTs, STSs, GSSs, two putative CpG Islands and a ca repeat polymorphism, RIKEN cDNA 2510027D20 gene, benzodiazapine receptor (peripheral), benzodiazepine receptor, peripheral cholinergic receptor, muscarinic 1, CNS, cholinergic receptor, muscarinic 3,
1495	24433	NM_012527	i	cardiac	cardiac EST, Moderately similar to CREATINE
1496	4467	NM_012529	<u>d</u> .		KINASE, B CHAIN [R.norvegicus], EST, Weakly similar to KIHUCB creatine kinase [H.sapiens], creatine kinase, brain DNA segment, Chr 3, ERATO Doi 555,
1497	16520	NM_012532	General	ceruloplasmin, ceruloplasmin (ferroxidase)	expressed, EST, Highly similar to 1012298A factor VIIIC [H.sapiens], ESTs, Weakly similar to CERU MOUSE CERULOPLASMIN PRECURSOR [M.musculus], ESTs, Weakly similar to CERU RAT CERULOPLASMIN PRECURSOR [R.norvegicus], ESTs, Weakly similar to KUHU ferroxidase [H.sapiens], Hermansky-Pudlak syndrome 3, ceruloplasmin, ceruloplasmin (ferroxidase), hephaestin

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Scq. (D.: No.	ໄດ້ອາໄປເອົາ	Concert Ace./.	Model (600)	Monologous Gano Maino	
1498	225	NM 012544	x.2	angiotensin I converting enzyme (peptidyl- dipeptidase A) 1, angiotensin converting enzyme	ESTs, Highly similar to A31759 peptidyl-dipeptidase A [H.sapiens], ESTs, Highly similar to JC2038 peptidyl-dipeptidase A [R.norvegicus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933424D04, full insert sequence, RIKEN cDNA 2010305L05 gene, anglotensin I converting enzyme (peptidyl-dipeptidase A) 1, anglotensin converting enzyme
				dopa decarboxylase, dopa decarboxylase (aromatic L-	EST, Highly similar to AROMATIC-L-AMINO-ACID DECARBOXYLASE [R.norvegicus], EST, Moderately similar to AROMATIC-L-AMINO-ACID DECARBOXYLASE [R.norvegicus], Mus musculus 10 days embryo cDNA, RIKEN full-length enriched library, clone:2610109O21, full insert sequence, dopa decarboxylase, dopa decarboxylase (aromatic L-amino acid
1499	1431	NM_012545	General	, ,	decarboxylase (aromatic E-amino acid
1500	23868	NM_012551	l,m,v,General	early growth response 1	ESTs, Weakly similar to I53869 zinc finger protein - mouse [M.musculus], early growth response 1, repressor of GATA, testis zinc finger protein
1500	23872	NM_012551	I,v,cc,General	early growth response 1	ESTs, Weakly similar to 153869 zinc finger protein - mouse [M.musculus], early growth response 1, repressor of GATA, testis zinc finger protein ESTs, Weakly similar to 153869 zinc finger protein - mouse [M.musculus],
1500	23869	NM 012551	v,General	early growth response 1	early growth response 1, repressor of
1501		NM_012554	v,General	early growth response 1 enolase 1, (alpha), enolase 1, alpha non-neuron	GATA, testis zinc finger protein EST, Moderately similar to ALPHA ENOLASE [R.norvegicus], EST, Weakly similar to A29170 phosphopyruvate hydratase [H.sapiens], Homo sapiens cDNA FLJ12774 fis, clone NT2RP2001663, moderately similar to ENOLASE (EC 4.2.1.11), enolase 1, (alpha), enolase 1, alpha non-neuron, enolase alpha, lung-specific, expressed sequence Al427012
				enolase 1, (alpha), enolase	EST, Moderately similar to ALPHA ENOLASE [R.norvegicus], EST, Weakly similar to A29170 phosphopyruvate hydratase [H.sapiens], Homo sapiens cDNA FLJ12774 fis, clone NT2RP2001663, moderately similar to ENOLASE (EC 4.2.1.11), enolase 1, (alpha), enolase 1, alpha non-neuron, enolase alpha, lung-specific, expressed sequence
1501	19408	NM_012554	n,s,y,z	1, alpha non-neuron  E26 avian leukemia oncogene 1, 5' domain, v- ets avian erythroblastosis virus E26 oncogene homolog 1	Al427012 E26 avian leukemia oncogene 1, 5' domain, ESTs, Moderately similar to FLI1 MOUSE RETROVIRAL INTEGRATION SITE PROTEIN FLI-1 [M.musculus], FEV protein, Rattus norvegicus ETS domain transcription factor Pet-1 mRNA, complete cds, v- ets avian erythroblastosis virus E26 oncogene homolog 1

TABLE	e HUMAN	<u>Honorogais</u> av	. Exotatoxi		
	l:lentifier	Confort Acel. Rel Seq. ID No.	Madel Gade	Monologous Cono	Dos, No. 1799997.(1 Romologous Guster Namo
1503	16895	NM_012558	g,s	(S) 179	EST, Weakly similar to FRUCTOSE- 1,6-BISPHOSPHATASE ISOZYME 2 [M.musculus], fructose bisphosphatase 1, fructose bisphosphatase 2, fructose- 1,6-bisphosphatase 1, fructose-1,6- bisphosphatase 2
1504	25317	NM_012559	bb		
4504	£477	NM 012550	h bb	fibrinogen, gamma	EST, Moderately similar to FGHUGB fibrinogen gamma-B chain precursor [H.sapiens], EST, Moderately similar to Recombinant Human Gamma-Fibrinogen Carboxyl Terminal Fragment [H.sapiens], ESTs, Weakly similar to FIBG RAT FIBRINOGEN GAMMA-A/-B CHAIN PRECURSOR [R.norvegicus], RIKEN cDNA 1110007F23 gene, expressed sequence Al303526, fibrinogen, gamma polypeptide, fibrinogen-like 1, feotio A. feotio A.
1504	6477	NM_012559	<b>b.bb</b>	polypeptide	ficolin A, ficolin B EST, Moderately similar to FGHUGB fibrinogen gamma-B chain precursor [H.sapiens], EST, Moderately similar to Recombinant Human Gamma- Fibrinogen Carboxyl Terminal Fragment [H.sapiens], ESTs, Weakly similar to FIBG RAT FIBRINOGEN GAMMA-A/-B CHAIN PRECURSOR [R.norvegicus], RIKEN cDNA 1110007F23 gene, expressed sequence Al303526, fibrinogen,
1504	6478	NM_012559	bb	fibrinogen, gamma polypeptide	gamma polypeptide, fibrinogen-like 1, ficolin A, ficolin B
				5. W. A. W	follistatin, follistatin-like 3, follistatin- like 3 (secreted glycoprotein), transmembrane protein with EGF-like
1505	11731	NM_012561	k	follistatin group specific component,	and two follistatin-like domains 1
1507	4254	NM_012564	а	group-specific component (vitamin D binding protein)	
1508	16026	NM_012578	r	H1 histone family, member 0	H1 histone family, member 0
1508	16024	NM_012578	<u>r</u>	H1 histone family, member 0	H1 histone family, member 0
1508	16025	NM_012578	r	H1 histone family, member 0	H1 histone family, member 0
1509	16080	NM_012580	g,m	heme oxygenase (decycling) 1	heme oxygenase (decycling) 1
1510	15098_	NM_012588	bb	insulin-like growth factor binding protein 3	insulin-like growth factor binding protein 3, protease, serine, 11 (Igf binding)
1511	4450	NM_012592	bb	isovaleryi Coenzyme A dehydrogenase, isovaleryi coenzyme A dehydrogenase	RIKEN cDNA 1300003009 gene, RIKEN cDNA 2310016C19 gene, acetyl-Coenzyme A dehydrogenase, short chain, isovaleryl Coenzyme A dehydrogenase, isovaleryl coenzyme A dehydrogenase
1511	4451	NM_012592	i,bb	isovaleryl Coenzyme A dehydrogenase, isovaleryl coenzyme A dehydrogenase	RIKEN cDNA 1300003009 gene, RIKEN cDNA 2310016C19 gene, acetyl-Coenzyme A dehydrogenase, short chain, isovaleryl Coenzyme A dehydrogenase, isovaleryl coenzyme A dehydrogenase

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Seg. (D :	ian de licentifier	ConBank Acc./ Rel. Seg. ID No.		Homologove Como	Handlagous Chester Messo
		V		isovalerył Coenzyme A dehydrogenase, isovalerył	RIKEN cDNA 1300003009 gene, RIKEN cDNA 2310016C19 gene, acetyl-Coenzyme A dehydrogenase, short chain, isovaleryl Coenzyme A
1511	4452	NM_012592	bb	coenzyme A dehydrogenase	dehydrogenase, isovaleryl coenzyme A dehydrogenase
1512	17198	NM_012593	a,x	kallikrein 1, renal/pancreas/salivary, kallikrein 6	kallikrein 1, renal/pancreas/salivary, kallikrein 21, kallikrein 24, kallikrein 27 kallikrein 5
1512	17197	NM_012593	x	kallikrein 1, renal/pancreas/salivary, kallikrein 6	kallikrein 1, renal/pancreas/salivary, kallikrein 21, kallikrein 24, kallikrein 27 kallikrein 5
1513	18749	NM_012600	a,h	malic enzyme 1, NADP(+)- dependent, cytosolic, malic enzyme, supernatant	
				myelocytomatosis oncogene, v-myc avian myelocytomatosis viral	
1514	2628	NM_012603	General	myelocytomatosis oncogene, v-myc avian myelocytomatosis viral	RIKEN cDNA 2900002K07 gene, myelocytomatosis oncogene, v-myc avian myelocytomatosis viral
1514 <sup>*</sup>	2629	NM_012603	x,General	oncogene homolog  membrane metallo endopeptidase, membrane metallo-endopeptidase (neutral endopeptidase,	oncogene homolog endothelin converting enzyme-like 1, expressed sequence AW322500, mel transforming oncogene-like 1, membrane metallo endopeptidase, membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10),
1515	16849	NM_012608	n,o,q	enkephalinase, CALLA, CD10)	membrane metallo-endopeptidase-like 2
1517	15540	NM_012620	General	serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
1518 ·	24568	NM_012630	, ·	prolactin receptor	cytokine receptor-like factor 1, interleukin 13 receptor, alpha 2, interleukin 5 receptor, alpha, prolactin receptor, prolactin receptor related sequence 1
1518	24566	NM 012630	General	prolactin receptor	cytokine receptor-like factor 1, interleukin 13 receptor, alpha 2, interleukin 5 receptor, alpha, prolactin receptor, prolactin receptor related sequence 1
10.10			300.00	prion protein, prion protein (p27-30) (Creutzfeld-Jakob disease, Gerstmann- Strausler-Scheinker syndrome, fatal familial	prion protein, prion protein (p27-30) (Creutzfeld-Jakob disease, Gerstmann Strausler-Scheinker syndrome, fatal
1519	18553	NM_012631	k	insomnia)	familial insomnia) ESTs, Highly similar to TPHUN1 protein-tyrosine-phosphatase
1520	1844	NM_012637	General		[H.sapiens], protein tyrosine phosphatase, non-receptor type 1 expressed sequence D19352, renin,
1521	24668	NM_012642	f	renin, renin 1 structural	renin 1 structural, renin 2 tandem duplication of Ren1
1522	18632	NM_012645	а		
1523	25435	NM_012647	9		
	1	1	ı	syndecan 4, syndecan 4	syndecan 4, syndecan 4 (amphiglycan

TABLES	KAMAN S	HOXIOFOGAEVY	NOTATIONS :		:: Aliy: Docket No. 44921-5069Wo Doc. No. 1796897.1
309. [D.	logation	ConBook Aced.	Model Code	Conce every constitution of the constitution o	Homologeus Gluster Name
					ESTs, Weakly similar to NAH1 MOUSE SODIUM/HYDROGEN EXCHANGER 1 [M.musculus], Homo sapiens mRNA; cDNA DKFZp434D0818 (from clone DKFZp434D0818), RIKEN cDNA 0610040A22 gene, RIKEN cDNA
1525	24496	NM_012654	n	solute carrier family 9 (sodium/hydrogen exchanger), isoform 3, solute carrier family 9 (sodium/hydrogen exchanger), member 3	6430709P13 gene, expressed sequence Al182282, solute carrier family 9 (sodium/hydrogen exchanger), isoform 3, solute carrier family 9 (sodium/hydrogen exchanger), isoform 6, solute carrier family 9 (sodium/hydrogen exchanger), member 1
			·	<b>,</b>	DNA segment, Chr 14, University of California at Los Angeles 3, EST, Moderately similar to A41386 clusterin precursor [H.sapiens], ESTs, Moderately similar to A41386 clusterin precursor [H.sapiens], clusterin, clusterin (complement lysis inhibitor, SP-40,40, sulfated glycoprotein 2, testosterone-repressed prostate message 2, apolipoprotein J),
1526	7101	NM_012679	x,bb,General		expressed sequence Al893575  cytochrome P450, 2a12, cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 13, cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 7, pseudogene 1, cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 7, pseudogene 2
1527	24707	NM_012693			7, pseudogania 2 EST, Weakly similar to KNG_MOUSE KININOGEN PRECURSOR [CONTAINS: BRADYKININ]
1528	1850	NM_012696	t	kininogen	[M.musculus], kininogen EST, Weakly similar to KNG_MOUSE KININOGEN PRECURSOR
1528	1854	NM_012696	t	kininogen	[CONTAINS: BRADYKININ] [M.musculus], kininogen  EST, Weakly similar to OCN2 MOUSE ORGANIC CATION/CARNITINE TRANSPORTER 2 [M.musculus], ESTs, Highly similar to OCN2_HUMAN ORGANIC CATION/CARNITINE TRANSPORTER 2 [H.sapiens], solute carrier family 22 (organic cation transporter), member 1, solute carrier family 22 (organic cation transporter), member 4, solute carrier family 22 (organic cation transporter), member 5, solute carrier family 22 (organic
1529	1603	NM_012697	General		cation transporter), member 9 ESTs, Highly similar to HXK1 RAT HEXOKINASE, TYPE I [R.norvegicus],
1530	1372	NM_012734	u	hexokinase 1	hexokinase 1, hypothetical protein FLJ22761 expressed sequence C79630,
1531	1478	NM_012744	bb,General		methylcrotonoyl-Coenzyme A carboxylase 1 (alpha), pyruvate carboxylase, pyruvate decarboxylase

TABLES	KAMUUT,	HOWOFOGAE VX	molvions	***************************************	(A11): Dockel No. 44921-500000 Doc, No. 1793897.1
Sco. ID:	i i	ConContract Roll Seq. (D) No.	Model Code	Monologova Cond.	emell relation de la company
					Signal transducer and activator of transcription 1, signal transducer and activator of transcription 1, signal transducer and activator of transcription 1, 91kD, signal
1532	343	NM_012747	h,t	,	transducer and activator of transcription 3, signal transducer and activator of transcription 3 (acute- phase response factor)
1533	8829	NM_012749	General		
1534	20828	NM_012752	General	CD24 antigen (small cell lung carcinoma cluster 4 antigen), CD24a antigen	CD24 antigen (small cell lung carcinoma cluster 4 antigen), CD24a antigen
1334	20020	14101_012732	General	CD24 antigen (small cell	CD24 antigen (small cell lung
4524	20020	NA 042752	i,General	lung carcinoma cluster 4 antigen), CD24a antigen	carcinoma cluster 4 antigen), CD24a antigen
1534	20829	NM_012752	i,General	CD24 antigen (small cell	CD24 antigen (small cell lung
				lung carcinoma cluster 4	carcinoma cluster 4 antigen), CD24a
1534	20830	NM_012752	i,General	antigen), CD24a antigen	antigen ESTs, Highly similar to 1312358A IGF
1535	15174	NM_012756	ь		Il receptor [H.sapiens], expressed sequence Al661837, insulin-like growth factor 2 receptor
1536	21685	NM_012760	j,m,n		EST, Weakly similar to ZF37_RAT ZINC.FINGER PROTEIN 37 (ZFP-37) [R.norvegicus], ESTs, Weakly similar to S59069 Z13 protein - mouse [M.musculus], Homo sapiens chromosome 19, BAC Z73239 (CIT-B-320G13), Homo sapiens, clone MGC:23189 IMAGE:4854518, mRNA, complete cds, RIKEN cDNA 2410081M15 gene, RIKEN cDNA 2610019F01 gene, RIKEN cDNA 2810011C24 gene, hypothetical protein FLJ12488, hypothetical protein 37, zinc finger protein mouse CARD only protein, ESTs, Moderately similar to A56084 Interleukin-1beta converting enzyme genzyme [H.sapiens], ESTs, Weakly similar to interleukin-1beta converting enzyme gamma isozyme [H.sapiens], Homo sapiens mRNA; cDNA DKFZp586A181); partial
1537	18068	NM_012762	t		cds, ICEBERG caspase-1 inhibitor, caspase 1, caspase 1, apoptosis- related cysteine protease (interleukin 1, beta, convertase)
1538	1246	NM_012770	a,General		ESTs, Weakly similar to ANPA MOUSE ATRIAL NATRIURETIC PEPTIDE RECEPTOR A PRECURSOR [M.musculus], guanylate cyclase 1, soluble, beta 2, guanylate cyclase 1, soluble, beta 3, natriuretic peptide receptor 1
1555		012/10	u,ounurar	adrenergic receptor kinase,	G protein-coupled receptor kinase 2, groucho gene related (Drosophila), G protein-coupled receptor kinase 5, G protein-coupled receptor kinase 6,
1630	1348	NM 012776	,	beta 1, adrenergic, beta, receptor kinase 1	adrenergic, beta, receptor kinase 1, rhodopsin kinase
1539	1348	NM_012776	<u>!</u>	neceptor kinase 1	ппоцорын кіпазв

VARUES		KONOTOGAEVY	KOTATIQUE		- Any Docket No. 4/1921-593900 Doc, No. 1793397.1
Soq.(D.) No.		ConContracell Roll: Seq. ID No.	Model Godo	Honologous Cono Namo de la constanta	Nomelogous Cluster Name
					ESTs, Moderately similar to DYRK RAT DUAL-SPECIFICITY TYROSINE-(Y)-PHOSPHORYLATION REGULATED KINASE [R.norvegicus], ESTs, Weakly similar to DYRK MOUSE DUAL-SPECIFICITY TYROSINE-(Y)-PHOSPHORYLATION REGULATED KINASE [M.musculus], Homo sapiens chromosome 19, CIT-HSP BAC 470n8, Mus musculus, clone MGC:6699 IMAGE:3584001, mRNA, complete cds, dual-specificity tyrosine-
1540	18135	NM_012791	w	dual-specificity tyrosine-(Y)- phosphorylation regulated kinase 1A, dual-specificity tyrosine-(Y)- phosphorylation regulated kinase 1a	(Y)-phosphorylation regulated kinase 1A, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1a, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1b, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2, homeodornain-interacting protein kinase 2
				guanidinoacetate N- methyltransferase,	GAMT_HUMAN GUANIDINOACETATE N- METHYLTRANSFERASE [H.sapiens], Homo sapiens, clone MGC:14390 IMAGE:4300887, mRNA, complete cds, guanidinoacetate N-
1541	16947	NM_012793	p,bb	guanidinoacetate methyltransferase	methyltransferase, guanidinoacetate methyltransferase ESTs, Highly similar to GTT2 RAT
				glutathione S-transferase theta 2, glutathione S-	GLUTATHIONE S-TRANSFERASE YRS-YRS [R.norvegicus], Homo sapiens mRNA; cDNA DKFZp762N226 (from clone DKFZp762N226), expressed sequence Al266894, glutathione S-transferase, theta 2, qlutathione S-transferase, theta 2,
1542	960	NM_012796	u .	transferase, theta 2	hypothetical protein BENE protein, Mus musculus, Similar
1543	260	NM 012798	f,u	mal, T-cell differentiation protein, myelin and lymphocyte protein; T-cell differentiation protein	to BENE protein, clone MGC:19097 IMAGE:4205488, mRNA, complete cds, RIKEN cDNA 2700018N07 gene, expressed sequence Al461653, mal, T- cell differentiation protein, mal, T-cell differentiation protein 2, myelin and lymphocyte protein; T-cell differentiation protein
1544	556	NM_012803	d	protein C, protein C (inactivator of coagulation factors Va and VIIIa)	B-factor, properdin, DKFZP586H2123 protein, ESTs, Weakly similar to PRTC RAT VITAMIN-K DEPENDENT PROTEIN C PRECURSOR [R.norvegicus], protein C, protein C (inactivator of coagulation factors Va and VIIIa)
1545	21729	NM 012804	q	ATP-binding cassette, sub-	ATP-binding cassette, sub-family D (ALD), member 1, ATP-binding cassette, sub-family D (ALD), member 2, ATP-binding cassette, sub-family D (ALD), member 3, ESTs, Weakly similar to ABD3 RAT ATP-BINDING CASSETTE, SUB-FAMILY D, MEMBER 3 [R.norvegicus]
				ramily D (ALD), member 3	alpha-methylacyl-CoA racemase,
1546 1547	15032 24895	NM_012816 NM_012817	General General	insulin-like growth factor binding protein 5	hypothetical protein FLJ11808 insulin-like growth factor binding protein 5

TABLES	e HUMAN	KONOTOGÁEVA	NOTATIONS :	र्वे केम्प्रमूच । अस्ति अस्ति । । । । । । । । । । । । । । । । । । ।	- 1 Ally, Doctor No. 44221-5039WQ
G~~ (IS)	i .	Content Ace.	)	Honologova Gena	, Dog. No. 1793397.1
339, ID	ldeniliter	Ref Sec ID No.	Model Goden	Namo de la company de la compa	Homologovis Christin Kemel
					EST, Weakly similar to ANXA_HUMAN ANNEXIN XI [H.sapiens], annexin
1548	18109	NM_012823	u,General		A10, annexin A3
					ATP-binding cassette, sub-family C
1					(CFTR/MRP), member 10, ATP-
	ļ.				binding cassette, sub-family C (CFTR/MRP), member 1a, ATP-
	1				binding cassette, sub-family C
		*		·	(CFTR/MRP), member 2, ATP-binding cassette, sub-family C (CFTR/MRP).
					member 4, ATP-binding cassette, sub-
					family C (CFTR/MRP), member 6, ESTs, Weakly similar to A40303 cystic
				ATP-binding cassette, sub-	
				family C (CFTR/MRP),	regulator - mouse [M.musculus],
1549	373	NM_012833	h,I,q,General	member 2 cystatin B, cystatin B	expressed sequence Al132311 cystatin B, cystatin B (stefin B),
1550	2855	NM_012838	е	(stefin B)	expressed sequence AA960480
					ESTs, Highly similar to 630485A cytochrome c [H.sapiens], ESTs,
					Weakly similar to CYTOCHROME C,
					SOMATIC [M.musculus], Homo sapiens pseudogene for cytochrome c-
					like protein, clone pHGC4E1, Human
					DNA sequence from clone RP11- 169O17 on chromosome 13 Contains
		•			ESTs, GSSs, STSs and four CpG
					islands. Contains a novel protein
					similar to cytochrome c, part of a novel gene similar to TPTE encoding a
					transmembrane phosphatase with
					tensin homology and the ADPRTL1 gene encoding ADP-ribosyltransferase
					(NAD+; poly (ADP-ribose) polymerase)
				cytochrome c, cytochrome	like protein 1 (vault protein, KIAA0177), cytochrome c, cytochrome
1551	11136	NM_012839	s	c, somatic	c, somatic
					EST, Moderately similar to EPIDERMAL GROWTH FACTOR
					PRECURSOR [M.musculus], ESTs,
					Moderately similar to EPIDERMAL GROWTH FACTOR PRECURSOR
	. 9				[M.musculus], ESTs, Weakly similar to
					EGRT epidermal growth factor precursor - rat [R.norvegicus], Homo
					sapiens mRNA; cDNA
					DKFZp434O0213 (from clone DKFZp434O0213); partial cds,
				epidermal growth factor,	epidermal growth factor, epidermal
4550	20005	NIN 040040		epidermal growth factor	growth factor (beta-urogastrone),
1552	20885	NM_012842	a	(beta-urogastrone)	nidogen 2 EST, Moderately similar to
•			}		EPIDERMAL GROWTH FACTOR
			l		PRECURSOR [M.musculus], ESTs, Moderately similar to EPIDERMAL
					GROWTH FACTOR PRECURSOR
	1			\	[M.musculus], ESTs, Weakly similar to EGRT epidermal growth factor
					precursor - rat [R.norvegicus], Homo
					sapiens mRNA; cDNA DKFZp43400213 (from clone
	!				DKFZp434O0213); partial cds,
				epidermal growth factor, epidermal growth factor	epidermal growth factor, epidermal growth factor (beta-urogastrone),
1552	20884	NM_012842	a,bb	(beta-urogastrone)	nidogen 2

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Scq, ID No.		Coilen's Acel Rei Sog ID Ne.	Model Gode	Komologovs Care k z Komov k k z zakada	
				lysosomal membrane glycoprotein 1, lysosomal-	CD68 antigen, ESTs, Weakly similar to LMP1 RAT LYSOSOME- ASSOCIATED MEMBRANE GLYCOPROTEIN 1 PRECURSOR [R.norvegicus], lysosomal membrane glycoprotein 1, lysosomal-associated
1553	18770	NM_012857	е	associated membrane protein 1	membrane protein 1, similar to \$68401 (cattle) glucose induced gene
				0-6-methylguanine-DNA methyltransferase, O-6- methylguanine-DNA	ESTs, Highly similar to 1207289A reverse transcriptase related protein [H.sapiens], ESTs, Highly similar to S21348 probable pol polyprotein-related protein 4 - rat [R.norveglcus], ESTs, Moderately similar to GNMSLL retrovirus-related reverse transcriptase homolog - mouse retrotransposon [M.musculus], ESTs, Weakly similar to 1207289A reverse transcriptase related protein [H.sapiens], ESTs, Weakly similar to B34087 hypothetical protein [H.sapiens], Homo sapiens cDNA FLJ12202 fis, clone MAMMA1000908, Mus musculus, Similar to L1 repeat, Tf subfamily, member 30, clone MGC:7372 [MAGE:3487559, mRNA, complete cds, RIKEN cDNA 1700082M22 gene, T lymphoma oncogene, expressed sequence Al267024, hypothetical protein FLJ21032, pheromone receptor
1554	20674	NM_012861		matrix Gla protein, matrix gamma-carboxyglutamate	V3R4 MATRIX GLA-PROTEIN PRECURSOR [H.sapiens], matrix Gla protein, matrix gamma-
1555	13151	NM_012862	a,r,General	turnor necrosis factor receptor superfamily, member 11b	carboxyglutamate (gla) protein Nerve growth factor receptor, fast, RIKEN cDNA 2610311B09 gene, nerve growth factor receptor, nerve growth factor receptor (TNFR superfamily, member 16), tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin), tumor necrosis factor receptor superfamily,
1556	24617	NM_012870	General a,v	(osteoprotegerin)	member 21 EST, Moderately similar to 60S RIBOSOMAL PROTEIN L39 [R.norvegicus], ESTs, Highly similar to 60S RIBOSOMAL PROTEIN L39 [R.norvegicus], ESTs, Highly similar to G02654 ribosomal protein L39 [H.sapiens], ESTs, Moderately similar to G02654 ribosomal protein L39 [H.sapiens], RIKEN cDNA 2810465O16 gene, RIKEN cDNA 4930517K11 gene, ribosomal protein L39, ribosomal protein L39-like 1

1,127				\$ 1, 16 m m	Any, Doctol No. 44921-513300 Doc, No. 1793897.1
Seq. (D Ko		ConDent: Acc./ Rof. Son ID No.	Moddleods :-	Homologous Garo, Namo	Homologous Cluster Name
					ESTs, Highly similar to A31318 glucose transporter-like protein [H.sapiens], ESTs, Weakly similar to GLUCOSE TRANSPORTER TYPE 2, LIVER [R.norvegicus], ESTs, Weakly
	:				similar to S05319 glucose transport protein, hepatic - mouse [M.musculus], solute carrier family 2 (facilitated glucose transporter), member 10, solute carrier family 2 (facilitated
1558	15872	NM 012879	o,r	solute carrier family 2 (facilitated glucose transporter), member 2	glucose transporter), member 2, solute carrier family 2, (facilitated glucose transporter) member 8
1559	495	NM_012880	z	superoxide dismutase 3, extracellular superoxide dismutase 3,	RIKEN cDNA 1700105P06 gene, superoxide dismutase 3, extracellular RIKEN cDNA 1700105P06 gene,
1559	494	NM_012880	С	extracellular	superoxide dismutase 3, extracellular
				secreted phosphoprotein 1, secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-	ù.
1560	23651	NM_012881	d,u,General	lymphocyte activation 1)	·
1562	19477	NM_012891	q	aminolevulinate, delta-,	
1563	18564	NM_012899	v,General	dehydratase	aminolevulinate, delta-, dehydratase EST, Weakly similar to A Chain A, Nmr
1564	7197	NM_012904	f,r,cc,General	annexin A1	Solution Structure Of Domain 1 Of Human Annexin I (SUB 41-113 [H.sapiens], annexin A1
1564	7196	NM_012904	v,cc,General	annexin A1	aquaporin 2, aquaporin 2 (collecting
1565	20202	NM 012909	b,r	aquaporin 2, aquaporin 2 (collecting duct)	duct), aquaporin 6, aquaporin 6, kidney specific
4505	40504				Mus musculus retinal cone arrestin 3 (Arr3) mRNA, complete cds, RIKEN cDNA 1200006117 gene, arrestin, beta 2, expressed sequence Al326910,
1566	16581	NM_012911	c.j		retinal S-antigen Mus musculus retinal cone arrestin 3 (Arr3) mRNA, complete cds, RIKEN cDNA 1200006117 gene, arrestin, beta
1566	16582	NM_012911	c		2, expressed sequence Al326910, retinal S-antigen ESTs, Highly similar to 1604249C
• () 0.	42 .	·	63		transcription factor ATF3 [H.sapiens], ESTs, Weakly similar to ATF3 RAT CYCLIC-AMP-DEPENDENT TRANSCRIPTION FACTOR ATF-3 [R.norvegicus], Jun dimerization
1567	24431	NM_012912	General	activating transcription factor 3	protein 2, activating transcription factor 3, basic leucine zipper transcription factor, ATF-like
1568	18118	NM_012913	P	ATPase, Na+/K+ transporting, beta 3 polypeptide	ATPase, Na+/K+ transporting, beta 3 polypeptide, ESTs, Highly similar to G02485 Na+/K+-exchanging ATPase [H.sapiens], expressed sequence Al664000
1569	6108	NM_012915	n		ATPase inhibitor, ATPase inhibitor precursor, ESTs, Moderately similar to ATPASE INHIBITOR, MITOCHONDRIAL PRECURSOR [R.norvegicus], Mus musculus 10 days embryo cDNA, RIKEN full-length enriched library, clone:2610204M17, full insert sequence

TABLES	e Humani	HOMOFOGAEVA	SKONATOKI		
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Seg. (D) No. **	volitiacial	Conson's Ace./ : Rof. Seq. ID No.;	Modal (Goda	Homologous Gono 🛴 Comen	emen voisi e evolution da
1570	20757	NM 012923	c,i,aa	cyclin G, cyclin G1	cyclin G, cyclin G1, cyclin G2, cyclin I
1570	20755	NM_012923	i	cyclin G, cyclin G1	cyclin G, cyclin G1, cyclin G2, cyclin I
1571	2830	NM_012925	f	CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344), CD59a antigen	CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344), CD59a antigen, ESTs, Weakly similar to CD59 RAT CD59 GLYCOPROTEIN PRECURSOR [R.norvegicus]
1571	2831	NM 012925	f	CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344), CD59a antigen	CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344), CD59a antigen, ESTs, Weakly similar to CD59 RAT CD59 GLYCOPROTEIN PRECURSOR [R.norvegicus]
13/1	2031	NIM_012925	<u>'</u>	and G344), CD33a antigen	EST, Moderately similar to CPT2 RAT
				camitine palmitoyttransferase 2, camitine	CARNITINE O- PALMITOYLTRANSFERASE II, MITOCHONDRIAL PRECURSOR [R.norvegicus], camitine palmitoyitransferase 2, camitine palmitoyitransferase II, expressed
1572	1977	NM 012930	q	palmitoyltransferase II	sequence Al323697
1573	18694	NM 012931	j.l,m,z		Protein, Homo sapiens cDNA FLJ14854 fis, clone PLACE1000972, breast cancer anti-estrogen resistance 1, enhancer of filamentation 1 (cas-like docking; Crk-associated substrate related), neural precursor cell expressed, developmentally downregulated gene 9, v-crk-associated tyrosine kinase substrate
1574	13723	NM 012935	n	crystallin, alpha B	
1575 1575	9109	NM_012939 NM_012939	j.y.z aa	cathepsin H	ESTs, Highly similar to KHHUH cathepsin H [H.sapiens], ESTs, Weakly similar to CATHEPSIN H PRECURSOR [R.norvegicus], Homo sapiens cDNA: FLJ22499 fis, clone HRC11250, highly similar to HSCATHH Human mRNA for cathepsin H (EC 3.4.22.16), cathepsin H, cathepsin W, cathepsin W (lymphopain)
15/5	19390	NM_012939	aa	dighthasia tayin sacantas	
1576	223	NM_012945	b.cc	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor), heparin binding epidermal growth factor- like growth factor	diphtheria toxin receptor (heparin- binding epidermal growth factor-like growth factor), expressed sequence AW047313, heparin binding epidermal growth factor-like growth factor
1577	15058	NM_012950	cc	coagulation factor () (thrombin) receptor	ESTs, Weakly similar to GPRY_MOUSE PROBABLE G PROTEIN-COUPLED RECEPTOR GPR34 [M.musculus], G protein-coupled receptor 41, G protein-coupled receptor 43, Rattus norvegicus protease activated receptor 3 mRNA, complete cds, coagulation factor II (thrombin) receptor

S02826 nonhistone chromosomal protein HMG-1 [H.sapiens], ESTs, Moderately similar to HIGH MOBILITY GROUP PROTEIN HMG-1 [M.musculus], RIKEN cDNA 4932431P20 gene, high mobility group box 1, high-mobility group box 1, high-mobility group (nonhistone chromosomal) protein 1, high-mobility group (nonhistone chromosomal) protein 1, high-mobility group (nonhistone chromosomal) protein 1-like 10, high-mobility group (nonhistone chromosomal) (nonhistone chromosomal) (nonhistone chromosomal) (nonhistone chromosomal) (nonhistone chromosomal) (nonhistone chromosomal) (nonhistone c	TABUES	e (HULLAIN)	HOVOTOGATEV	Notations .	**************************************	?"Ally. Docket No. 44921-6933WO Doc. No. 1793697.1
SET, Moderately similar to A Chain A, Crystal Structure   Crystal Structure of Hingt Domain A Bound To A Clisiplatin-Modified Dna Duplex (Rnovegious), ESTS, Weakly similar to A Chain A, Crystal Structure Of Hingt Domain A Bound To A Clisiplatin-Modified Dna Duplex (Rnovegious), ESTS, Moderately similar to HIGH MOBILITY (Rnovegious), ESTS, Moderately similar to HIGH MOBILITY (Rnovegious), ESTS, Moderately similar to HIGH MOBILITY (RNOVE) promission protein film (Protein MidS) (Mmusculus), RIKEN cDNA 4932431720 gene, high mobility group box 1, high mobility group box 1, high mobility group box 1, high mobility group pox 1, high mobility group from the mobility group (nonhistone chromosomal) protein 1, high-mobility group pox 1, high-mobility group (nonhistone chromosomal) protein 1, high-mobility group	Seq.(D) No.	loiniller	Confinit Ace./ Ref. Sec. 10 No. 1	Model Gode	Kanologova Gara; Kanologova Gara;	Cioniologous Cluster Namo
protein HMG-1 (H. sapjene), ESTS, Moderately similar to HMGBLITY GROUP PROTEIN HMG9 (IM. musculus), RIKEN CDNA 4832431920 gene, high mobility group box 1, high-mobility group box 1, high-mobility group box 1, high-mobility group (nonhistone chromosomal) protein 1, high-mobility group (nonhistone chromosomal protein 1, high-mobility group (nonhistone chromosomal pr						Crystal Structure Of Hmg1 Domain A Bound To A Cisplatin- Modified Dna Duplex [R.norvegicus], EST, Weakly similar to A Chain A, Crystal Structure Of Hmg1 Domain A Bound To A Cisplatin- Modified Dna Duplex [R.norvegicus], ESTs, Highly similar to
Injoh-mobility group (nonhistone chromosomal) protein 1-like (n)gh-mobility (nonhistone chromosomal) protein 1-like (n)gh-mobility (nonhistone chromosomal) protein 1-like (n)gh-mobility (nonhistone chromosomal) protein 1-like (n)gh-mobility (nonhistone chromosomal) protein 1-like (nonhistone chromosomal) protein 1-like (nonhistone chromosomal) protein 1-like (nonhistone chromosomal (nonhistone chromosomal) protein 1-like (nonhistone chromosomal (nonhistone chromosomal) protein 1-like (nonhistone chromosomal (nonhistone chromosomal) protein 1-like (nonhistone chromosomal (nonhistone chromosomal (nonhistone chromosomal) protein 1-like (nonhistone chromosomal (nonhistone chromosomal) protein 1-like (nonhistone chromosomal (nonhistone chromosomal) protein 1-like (nonhistone chromosomal (nonhistone chromosomal) protein 1-like (nonhistone chromosomal) protein 1-like (nonhistone					V	protein HMG-1 [H.sapiens], ESTs, Moderately similar to HIGH MOBILITY GROUP PROTEIN HMG1 [M.musculus], RIKEN CDNA 4932431P20 gene, high mobility group box 1, high mobility group (nonhistone
Num musculus 12 days embryo male wolffan duchdes surround for gegion cDNA, RIKEN full-length enriched library, clone:6720466F14, full insert sequence, RIKEN CDNA on the full insert sequence, RIKEN CDNA on the full insert sequence, RIKEN CDNA on the full insert sequence, RIKEN CDNA on the full insert sequence, RIKEN CDNA on the full insert sequence, RIKEN CDNA on the full insert sequence, RIKEN CDNA on the full insert sequence, RIKEN CDNA on the full insert sequence reports (RHAMM), hyaluronan-mediated motility receptor (RHAMM), hyalur	4570	40444	NIA 040000	,	high-mobility group (nonhistone chromosomal)	group (nonhistone chromosomal) protein 1-like 10, high-mobility group (nonhistone chromosomal) protein 1-
Homo sapiens mRNA; cDNA DKFZp434E0516 (from clone DKFZp434E0516), intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human dhinovirus receptor, intercellular adhesion molecule 3, intercellular adhesion molecule 3, intercellular adhesion molecule 3, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor  Intercellular adhesion molecule, intercellular adhesion molecule 3, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor  Intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor  Intercellular adhesion molecule 1 (CD54), human rhinovirus receptor  Intercellular adhesion molecule 3, intercellular adhesion molecule 3, intercellular adhesion molecule 3, intercellular adhesion molecule 3, intercellular adhesion molecule 3, intercellular adhesion molecule 3, intercellular adhesion molecule 5, telencephalin potassium voltage-gated channel, Isk- related subfamily, member 1, potassium voltage-gated channel, Isk- related family, member 1, potassium voltage-gated channel, Isk- related family, member 1 ESTs, Highly similar to LEG9 RAT GALECTIN-9 (R.norvegicus), ESTs, Highly similar to LEG9 RAT GALECTIN-9 (R.norvegicus), expressed sequence Al265545, lectin, galactose binding, soluble 12, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactose binding, solubl				g	hyaluronan mediated motility receptor (RHAMM), hyaluronan-mediated	Mus musculus 12 days embryo male wolffian duct includes surrounding region cDNA, RIKEN full-length enriched library, clone:6720466F14, full insert sequence, RIKEN cDNA 0610027D24 gene, TRAF4 associated factor 1, hyaluronan mediated motility receptor (RHAMM), hyaluronan-
Homo sapiens mRNA; cDNA DKF Zp434E0516 (from clone DKFZp434E0516), intercellular adhesion molecule, intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human minovirus receptor, intercellular adhesion molecule 3, intercellular adhesion molecule 3, intercellular adhesion molecule 3, intercellular adhesion molecule 5, telencephalin polassium voltage-gated channel, Isk-related family, member 1, potassium voltage-gated channel, Isk-related family, member 1, potassium voltage-gated channel, Isk-related family, member 1, potassium voltage-gated channel, Isk-related family, member 1 (ESTs, Highly similar to LEG9 RAT GALECTIN-9 (R. norvegicus), ESTs, Highly similar to LEG9 RAT GALECTIN-9 (R. norvegicus), expressed sequence Al265545, lectin, galactose binding, soluble 12, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble, 9 (galectin 9)				x	intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human rhinovirus	Homo sapiens mRNA; cDNA DKFZp434E0516 (from clone DKFZp434E0516), intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor, intercellular adhesion molecule 3, intercellular
channel, Isk-related family, member 1, potassium voltage-gated channel, Isk-related family, member 1, potassium voltage-gated channel, Isk-related family, member 1, potassium voltage-gated channel, Isk-related subfamily, member 1  1582 24528 NM_012973 c 1 ESTs, Highly similar to LEG9 RAT GALECTIN-9 [R.norvegicus], ESTs, Highly similar to LEG9 RAT GALECTIN-9 [R.saplens], ESTs, Weakly similar to LEG9 RAT GALECTIN-9 [R.norvegicus], expressed sequence Al265545, lectin, galactose binding, soluble 12, lectin, galactose binding, soluble 9, lectin, galactoside-binding, soluble, 9 (galectin 9)	1581			t,cc,General	intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor	Homo sapiens mRNA; cDNA DKFZp434E0516 (from clone DKFZp434E0516), intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor, intercellular adhesion molecule 3, intercellular
ESTs, Highly similar to LEG9 RAT GALECTIN-9 [R.norvegicus], ESTs, Highly similar to LEG9_HUMAN GALECTIN-9 [H.saplens], ESTs, Weakly similar to LEG9 RAT GALECTIN-9 [R.norvegicus], expressed sequence Al265545, lectin, galactose binding, soluble 12, lectin, galactose binding, soluble 9, lectin, galactose binding, soluble 9, lectin, galactoside-binding, soluble, 9 (galectin 9)	4592	24528	NIA 012073		channel, Isk-related family, member 1, potassium voltage-gated channel, Isk- related subfamily, member	related family, member 1, potassium voltage-gated channel, lsk-related
1583 956 NM_012976 c (galectin 9)	1362	24325	ININ_U12973	u		ESTs, Highly similar to LEG9 RAT GALECTIN-9 [R.norvegicus], ESTs, Highly similar to LEG9_HUMAN GALECTIN-9 [H.saplens], ESTs, Weakly similar to LEG9 RAT GALECTIN-9 [R.norvegicus], expressed sequence Al265545, lectin, galactose binding, soluble 12, lectin, galactose binding, soluble 9, lectin,
						(galectin 9)

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1585	17393	NM 012992	d	nucleophosmin (nucleolar phosphoprotein B23, numatrin), nucleophosmin	ESTs, Moderately similar to NPM_HUMAN NUCLEOPHOSMIN [H.sapiens], ESTs, Weakly similar to NPM_HUMAN NUCLEOPHOSMIN [H.sapiens], nucleophosmin (nucleolar phosphoprotein B23, numatrin), nucleophosmin 1, nucleophosmin/nucleoplasmin 3, nucleoplasmin 3
1586	23544	NM 013013	5	prosaposin, prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy)	ESTs, Weakly similar to 1504251A sphingolipid activator [H.sapiens], RIKEN cDNA 2310020A21 gene, prosaposin, prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy)
1587	1588	NM_013026	k	syndecan 1	syndecan 1
1588	17894	NM_013027	m	selenoprotein W, 1, selenoprotein W, muscle 1	ESTs, Weakly similar to SELW MOUSE SELENOPROTEIN W [M.musculus], selenoprotein W, 1, selenoprotein W, muscle 1
					ESTs, Weakly similar to NPT2 RAT RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 [R.norvegicus], ESTs, Weakly similar to NPT2_HUMAN RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 [H.sapiens], Homo sapiens, Similar to solute carrier family 34 (sodium phosphate), member 1, clone MGC:18179 IMAGE:4155326, mRNA, complete cds, Solute carrier family 17 (sodium/hydrogen exchanger), member 2, expressed
1589	18300	NM_013030	s,v,General	1 3 W 2 1 1 1 1	sequence Al649385, solute carrier fámily 34 (sodium phosphate), member 1, solute carrier family 34 (sodium phosphate), member 2 ESTs, Weakly slmilar to NPT2 RAT
1589	18076	NM 013030	<b>9</b> ,5,2	solute carrier family 34 (sodium phosphate), member 1	RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 [R.norvegicus], ESTs, Weakly similar to NPT2_HUMAN RENAL SODIUM- DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 [H.sapiens], Homo sapiens, Similar to solute carrier family 34 (sodium phosphate), member 1, clone MGC:18179 IMAGE:4155326, mRNA, complete cds, Rattus norvegicus mRNA for NaPi-2 alpha, complete cds, expressed sequence Al649385, solute carrier family 34 (sodium phosphate), member 1, solute carrier family 34 (sodium phosphate), member 2

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Seq.(ID.) No.:	identifier	ConDonk Acc./: Ref. Seq. ID No.	7	Hemelegous Cono	Homelogues Gueter Namo
				solute carrier family 34 (sodium phosphate),	ESTs, Weakly similar to NPT2 RAT RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 [R.norvegicus], ESTs, Weakly similar to NPT2_HUMAN RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 [H.sapiens], Homo sapiens, Similar to solute carrier family 34 (sodium phosphate), member 1, clone MGC:18179 IMAGE:4155326, mRNA, complete cds, Rattus norvegicus mRNA for NaPi-2 alpha, complete cds, Solute carrier family 17 (sodium/hydrogen exchanger), member 2, expressed sequence Al649385, solute carrier family 34 (sodium phosphate), member 1, solute carrier family 34 (sodium phosphate), member 1, solute carrier family 34 (sodium phosphate),
1589	18078	NM_013030	\$	member 1	member 2
- 100					ESTs, Weakly similar to NPT2 RAT RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 (R.norvegicus), ESTs, Weakly similar to NPT2_HUMAN RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 (H.sapiens), Homo sapiens, Similar to solute carrier family 34 (sodium phosphate), member 1, clone MGC:18179 IMAGE:4155326, mRNA, complete cds, Rattus norvegicus mRNA for NaPi-2 alpha, complete cds, expressed sequence
				solute carrier family 34	Al649385, solute carrier family 34 (sodium phosphate), member 1, solute
1589	18077	NM 013030	e,s,z	(sodium phosphate), member 1	carrier family 34 (sodium phosphate), member 2
1591	730	NM_013040	<b>W</b>	ATP-binding cassette, sub- family C (CFTR/MRP), member 9	ATP-binding cassette, sub-family C (CFTR/MRP), member 8, ATP-binding cassette, sub-family C (CFTR/MRP), member 9, ESTs, Highly similar to ACC8_HUMAN SULFONYLUREA RECEPTOR 1 [H.sapiens], ESTs, Weakly similar to T42728 sulfonylurea receptor 2, isoform B - mouse [M.musculus], Mus musculus adult male pituitary gland cDNA, RIKEN full-
1592	17401	NM_013043	i,o,General	transforming growth factor beta 1 induced transcript 4, transforming growth factor beta-stimulated protein TSC-22	ESTs, Moderately similar to DIP_HUMAN DIP PROTEIN [H.sapiens], delta sleep inducing peptide, immunoreactor, glucocorticoid- induced leucine zipper, transforming growth factor beta 1 induced transcript 4, transforming growth factor beta- stimulated protein TSC-22
1593	16684	NM_013052	General	tyrosine 3- monooxygenase/tryptopha n 5-monooxygenase activation protein, eta polypeptide	3-monooxgenase/tryptophan 5- monooxgenase activation protein, gamma polypeptide, tyrosine 3- monooxygenase/tryptophan 5- monooxygenase activation protein, eta polypeptide

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Scq. (D)	lejantija?	ConDenk Ace./ Ref Seq. ID No.:	Model Gode 4	Homologous Camp Namo	Konclojous Clister Namo
					RIKEN cDNA 2700028P07 gene,
					tyrosine 3-monooxygenase/tryptophan
			i		5-monooxygenase activation protein,
1594	14421	NM_013053	U		theta polypeptide inhibitor of DNA binding 3, inhibitor of
				1	DNA binding 3, dominant negative
1595	15254	NM 013058	k		helix-loop-helix protein
					alkaline phosphatase,
1596	14997	NM_013059	s,z		liver/bone/kidney
4500	14996	NINA 0420E0	General		alkaline phosphatase, liver/bone/kidney
1596 1597	25676	NM_013059 NM_013069	aa		ilver/bone/kiendy
100.	200.0	74			CD74 antigen (invariant polypeptide of
					major histocompatibility complex, class
		:			II antigen-associated), la-associated
				,	invariant chain, KIAA0275 gene product, sparc/osteonectin, cwcv and
					kazal-like domains proteoglycan
					(testican), sparc/osteonectin, cwcv and
					kazal-like domains proteoglycan 1,
					sparc/osteonectin, cwcv and kazal-like
1597	16924	NM_013069	0		domains proteoglycan 2
					Dystrophin, dystrophin (muscular dystrophy, Duchenne and Becker
[				1	types), includes DXS142, DXS164,
					DXS206, DXS230, DXS239, DXS268,
					DXS269, DXS270, DXS272,
					dystrophin, muscular dystrophy,
ł					dystrophin-related protein 2 A-form
4500	0.4740	AUA 040070		utrophin, utrophin (homologous to dystrophin)	splice variant, utrophin, utrophin (homologous to dystrophin)
1598	24748	NM_013070	h,q	(nomologous to dystrophin)	syndecan 2, syndecan 2 (heparan
					sulfate proteoglycan 1, cell surface-
1599	1529	NM_013082	d,General		associated, fibroglycan)
			•		tumor necrosis factor receptor
					superfamily, member 12, tumor
					necrosis factor receptor superfamily, member 12 (translocating chain-
				, i	association membrane protein), tumor
					necrosis factor receptor superfamily,
				+	member 1A, tumor necrosis factor
· .			ĺ	,	receptor superfamily, member 1a,
					tumor necrosis factor receptor superfamily, member 1a-like 1, tumor
٠.					necrosis factor receptor superfamily.
1600	1521	NM_013091	j,I,z,General	·	member 1a-like 2
				hemoglobin alpha, adult	
	l		ľ	chain 2, hemoglobin, alpha	
1601	1685	NM_013096	c,aa	1	
1601	26150	NM_013096	c,i	hemoglobin alpha, adult	
				chain 2, hemoglobin, alpha	
1601	1688	NM_013096	р	1	
	Ī				EST, Moderately similar to HART1
					hemoglobin alpha-1 chain - rat
			1		[R.norvegicus], ESTs, Moderately similar to HART1 hemoglobin alpha-1
		,	I		chain - rat [R.norvegicus], RIKEN
		1		hemoglobin alpha, adult	cDNA 2510042H12 gene, hemoglobin
					alpha, adult chain 1, hemoglobin,
1601	1689	NM_013096	с.р	1	alpha 1, hemoglobin, alpha 2

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1601	1684	NM_013096	c,s,aa	hemoglobin alpha, adult chain 2, hemoglobin, alpha 1	EST, Moderately similar to HART1 hemoglobin alpha-1 chain - rat [R.norvegicus], ESTs, Moderately similar to HART1 hemoglobin alpha-1 chain - rat [R.norvegicus], RIKEN cDNA 2510042H12 gene, hemoglobin alpha, adult chain 1, hemoglobin, alpha 1, hemoglobin, alpha 2
1602	20886	NM_013097	u,x,bb		EST- Machinelmine to DDN4 DAT
1602	20887	NM 013097	u,x,bb		ESTs, Weakly similar to DRN1 RAT DEOXYRIBONUCLEASE I PRECURSOR [R.norvegicus], Mus musculus DNasel precursor mRNA, complete cds, RIKEN cDNA 4733401H14 gene, deoxyribonuclease I, expressed sequence AI788650
	·				ESTs, Weakly similar to G6PT RAT GLUCOSE-6-PHOSPHATASE [R.norvegicus], Homo sapiens, clone IMAGE:3050476, mRNA, partial cds, RIKEN cDNA 0710001K01 gene, expressed sequence AW545836, glucose-6-phosphatase, catalytic, glucose-6-phosphatase, catalytic (glycogen storage disease type I, von Gierke disease), glucose-6-phosphatase, catalytic, related sequence, islet-specific glucose-6-phosphatase catalytic subunit-related
1603	1321	NM_013098	c		protein
	15296	NM 013102	l.m	FK506 binding protein 1a (12 kDa), FK506-binding protein 1A (12kD)	ESTs, Moderately similar to 1613455A FK506 binding protein FKBP [H.sapiens], FK506 binding protein 1a (12 kDa), FK506 binding protein 1b (12.6 kDa), FK506 binding protein 2 (13 kDa), FK506 binding protein 4 (59 kDa), FK506 binding protein 5 (51 kDa), FK506-binding protein 1A (12kD)
				<u> </u>	ATPase, Na+/K+ transporting, beta 1
1606	23709	NM_013113	o,s,z,aa		polypeptide ATPase, Na+/K+ transporting, beta 1
1606	23711	NM_013113	ρ		polypeptide ATPase, Na+/K+ transporting, beta 1
1606	23710	NM_013113	s		polypeptide
1607	1976	NM_013118	u		guanylate cyclase activator 18 (retina), guanylate cyclase activator 2 (guanylin 2, intestinal, heatstable), guanylate cyclase activator 2A (guanylin) MAD (mothers against
1609	870	NM_013130	h		decapentaplegic, Drosophila) homolog 1, MAD (mothers against decapentaplegic, Drosophila) homolog 5, MAD (mothers against decapentaplegic, Drosophila) homolog 9
1610	16650	NM_013132	u,General_	annexin A5	annexin A5
					3-hydroxy-3-methylglutaryl-Coenzyme A reductase, ESTs, Moderately similar to hydroxymethylglutaryl-CoA reductase [M.musculus], SREBP
1611	650	NM_013134	<u>n</u>	L	CLEAVAGE-ACTIVATING PROTEIN

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Seq. ID': No:	lder (1707	Consenkaced, Roll (Dec. 1861)	Model Goods	Homologova Geno Nemo	Homologicus Cluster Keine
1611	651	NM_013134	h.j.l		3-hydroxy-3-methylglutaryl-Coenzyme A reductase, ESTs, Moderately similar to hydroxymethylglutaryl-CoA reductase [M.musculus], SREBP CLEAVAGE-ACTIVATING PROTEIN
1612	1712	NM_013138	General	inositol 1,4,5-triphosphate receptor 3, inositol 1,4,5- triphosphate receptor, type 3	ESTs, Moderately similar to INOSITOL 1,4,5-TRISPHOSPHATE-BINDING PROTEIN TYPE 1 RECEPTOR [M.musculus], Mus musculus, Similar to Purkinje cell protein 1, clone MGC:11943 IMAGE:3600031, mRNA, complete cds, RIKEN cDNA 9330127I20 gene, inositol 1,4,5-triphosphate receptor 1, inositol 1,4,5-triphosphate receptor 2, inositol 1,4,5-triphosphate receptor, type 3 insulin-like growth factor binding
1613	16982	NM_013144	o,v,General		protein 1, protease, serine, 11 (IGF binding)
1614	21683	NM_013154	t,cc,General	CCAAT/enhancer binding protein (C/EBP), delta	CCAAT/enhancer binding protein (C/EBP), delta CCAAT/enhancer binding protein
1614	21682	NM_013154	cc	CCAAT/enhancer binding protein (C/EBP), delta	(C/EBP), delta
1615	3431	NM_013156	b,g,n	cathepsin L	ESTs, Weakly similar to CATHEPSIN L PRECURSOR [M.musculus], RIKEN cDNA 2310051M13 gene, RIKEN cDNA 4930486L24 gene, cathepsin 7, cathepsin F, cathepsin L, cathepsin L2, cathepsin O
1615_	25567	NM_013156	v,General		
1615	3430	NM 013156	General	cathepsin L	ESTs, Weakly similar to CATHEPSIN L PRECURSOR [M.musculus], RIKEN cDNA 2310051M13 gene, RIKEN cDNA 4930486L24 gene, cathepsin 7, cathepsin F, cathepsin L, cathepsin L2, cathepsin O
1616	1309	NM_013159		<u> </u>	RIKEN cDNA 4833415K22 gene, expressed sequence AA675336, insulin degrading enzyme, insulin- degrading enzyme
1616	1310	NM 013159	w .		RIKEN cDNA 4833415K22 gene, expressed sequence AA675336, insulin degrading enzyme, insulin- degrading enzyme
	21723	NM_013174	w		TGF beta 2 protein, transforming growth factor, beta 2, transforming growth factor, beta 3
,	- 1120				EST, Moderately similar to CAMP- DEPENDENT PROTEIN KINASE TYPE I-ALPHA REGULATORY CHAIN [R.norvegicus], protein kinase, cAMP dependent regulatory, type 1, alpha, protein kinase, cAMP dependent regulatory, type I beta, protein kinase, cAMP-dependent, regulatory, type I,
1618	1314	NM_013181	m	meprin 1 beta, meprin A,	alpha (tissue specific extinguisher 1) expressed sequence C87576, meprin
1619	17357	NM_013183	p.bb,General	beta	1 beta, meprin A, beta Mus musculus adult male stomach cDNA, RIKEN full-length enriched library, clone:2210403E17, full insert sequence, expressed sequence AA407869, phosphofructokinase, liver, phosphofructokinase, liver, B-type,

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					EST, Highly similar to HEM0 RAT 5- AMINOLEVULINIC ACID SYNTHASE, ERYTHROID-SPECIFIC, MITOCHONDRIAL PRECURSOR [R.norvegicus], ESTs, Highly similar to SYHUAE 5-aminolevulinate synthase [H.sapiens], aminolevulinate, delta-, synthase 2 (sideroblastic/hypochromic anemia), aminolevulinic acid synthase 1, aminolevulinic acid synthase 2, erythroid, glycine C-acetyltransferase (2-amino-3-ketobutyrate coenzyme A ligase), glycine C-acetyltransferase (2- amino-3-ketobutyrate-coenzyme A
1621	16448	NM_013197	C		(ligase)
				camitine palmitoyltransferase 1, muscle, camitine palmitoyltransferase I,	ESTs, Moderately similar to CPTM RAT CARNITINE O- PALMITOYLTRANSFERASE I, MITOCHONDRIAL MUSCLE ISOFORM [R.norvegicus], ESTs, Weakly similar to CPT1 MOUSE CARNITINE O- PALMITOYLTRANSFERASE I, MITOCHONDRIAL LIVER ISOFORM [M.musculus], camitine palmitoyltransferase 1, liver, camitine palmitoyltransferase 1, muscle,
1622 1623	20856 397	NM_013200 NM_013214	b f	muscle	carnitine palmitoyltransferase I, muscle
					ESTs, Highly similar to AR72_HUMAN AFLATOXIN B1 ALDEHYDE REDUCTASE 1 (AFB1-AR 1) (ALDOKETOREDUCTASE 7) [H.sapiens], ESTs, Moderately similar to AFAR RAT AFLATOXIN B1 ALDEHYDE REDUCTASE [R.norvegicus], RIKEN cDNA 0610025K21 gene, Rattus norvegicus aiar mRNA for androgen-inducible aldehyde reductase, complete cds, aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase), aldo-keto reductase family 7, member
1624	20864	NM_013215	g,n,y		A3 (aflatoxin aldehyde reductase) ESTs, Moderately similar to T30989
				·	estis, Moderately similar to 13096 serine/threonine protein kinase NIK - mouse [M.musculus], Mus musculus, Similar to zinc finger protein 347, clone MGC:18913 IMAGE:4242025, mRNA, complete cds, RIKEN cDNA 1500031A17 gene, mitogen-activated protein kinase
					leukemia (trithorax (Drosophila) homolog); translocated to, 4, syntaxin
1625	20728	NM_013217			binding protein 4 ESTs, Highly similar to ALR RAT
4000	4000	AUA 040000			AUGMENTER OF LIVER REGENERATION [R.norvegicus], growth factor, erv1 (S. cerevisiae)-like
1626	1396	NM_013222	j	of liver regeneration)	(augmenter of liver regeneration)

Section   Name	电对角指	1.00	TOWO FOCATEVY		· · · · · · · · · · · · · · · · · · ·	
ESTs, Highly similar to RS26_HUMA   40S RIBOSOMAL PROTEIN 328   H. sapiens, Home sapiens, clone	30G. ID%		Concent Acel Ref. Seg. ID No.	Model Godo	Komologowa Gara	Homologova Giveter Nama
ESTS, Highly similar to ACDM MOUS ACYL-COA DEHYDROGENASE, MEDIUM-CHAIN SPECIFIC PRECURSOR [M.musculus], acetyl-Coenzyme A dehydrogenase, medium chain, acyl-Coenzyme A dehydrogenase, medium chain, acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain chain, acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain chain, expressed sequence Al98794 [ESTS, Weakly similar to PPAL RAT LYSOSOMAL ACPHOSPHATASE] acid phosphatase 2, phosphatase 6, lysophosphatidic, ac phosphatase 6, lysophosphatidic, ac phosphatase 6, lysophosphatidic, ac phosphatase 6, lysophosphatidic, ac phosphatase 6, lysophosphatidic, ac phosphatase 6, lysophosphatidic, ac phosphatase 7, lysophatase 1, list FAT 60 RIBOSOMAL PROTEIN L15 [R.norvegicus], ESTs, Highly similar R115 PHIMAM DE R15 RAT 60 RIBOSOMAL PROTEIN L15 [R.norvegicus], ESTs, Highly similar R115 PHIMAM DE R15 RAT 60 RIBOSOMAL PROTEIN L15 [R.norvegicus], ESTs, Highly similar R115 PHIMAM DE R15 RAT 60 RIBOSOMAL PROTEIN L15 [R.norvegicus], ESTs, Weakly similar to L15 RAT 60 RIBOSOMAL PROTEIN L15 [R.norvegicus], ESTs, Weakly similar to CASR, HUMAN EXTRACELLULAR CALCIUM-SENSING RECEPTOR PRECURSOR [H.sapiens], ESTs, Weakly similar to CASR, HUMAN EXTRACELLULA CALCIUM-SENSING RECEPTOR PRECURSOR [H.sapiens], ESTs, Weakly similar to CASR, HUMAN EXTRACELLULA CALCIUM-SENSING RECEPTOR PRECURSOR [H.sapiens], ESTs, Weakly similar to PEXTRACELLULAR CALCIUM-SENSING RECEPTOR PRECURSOR [H.sapiens], ESTs, Weakly similar to protein coupler deceptor, family C, group 1, member A, G protein coupler calcium-sensing receptor (hypocaclouric hyperacloemia 1, sever neonatal hyperparathyroidism), womeronasal 2, receptor, 11, womeronasal 2, receptor, 11, womeronasal 2, receptor, 11, womeronasal 2, receptor, 11, womeronasal 2, receptor, 11, vomeronasal 2, receptor, 11, vomeronasal 2, receptor, 11, vomeronasal 2, receptor, 11, vomeronasal 2, receptor, 11, vomeronasal 2, receptor, 11, vomeronasal 2, receptor, 11, vomeronasal 2, receptor, 11, vomeronasal 2, receptor, 11, volchormer P450, 4310, cytochrome P450, 4						ESTs, Highly similar to RS26_HUMA 40S RIBOSOMAL PROTEIN S26 [H.sapiens], Homo sapiens, clone IMAGE:4100953, mRNA, Human DN sequence from PAC 384D21 on chromosome X contains ribosomal protein S26 pseudogene, STS, polymerase (RNA) II (DNA directed)
ESTS, Highly similar to ACDM MOUS ACVL-CAD DEPTOGENASE.  acetyl-Coenzyme A dehydrogenase, medium chain, acyl-Coenzyme A dehydrogenase, medium chain, acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain  529 21078 NM 016986 d 12 straight chain						polypeptide D, noosomal protein 526
ESTs, Weakly similar to PPAL RAT LYSOSOMAL ACID PHOSPHATASI PRECURSOR [R.norvegicus], acid phosphatase 2, lysosomal, acid phosphatase 2, lysosomal, acid phosphatase, prostate, prosphatase, prostate, acid phosphatase, prostate, acid phosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prostate, prosphatase, prosphatase, prosphatase, prosphatase, prosphatase, prosphatase, p					dehydrogenase, medium chain, acyl-Coenzyme A dehydrogenase, C-4 to C-	MEDIUM-CHAIN SPECIFIC PRECURSOR [M.musculus], acetyl- Coenzyme A dehydrogenase, mediur chain, acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight
LYSOSOMAL ACID PHOSPHATASI PRECURSOR [R.norvegicus], acid phosphatase 2, lysosomal, acid phosphatase 6, lysophosphatidic, ac phosphatase, prostate, acid phosphatase, estiticular EST, Weakly similar to RL15 RAT 60 RIBOSOMAL PROTEIN L15 [R.norvegicus], ESTs, Highly similar RL15_HIMAM 60S RIBOSOMAL PROTEIN L15 [R.apiens], ESTs, Moderately similar to RL15 RAT 60S RIBOSOMAL PROTEIN L15 [R.norvegicus], RIKEN cDNA 2510008H07 gene, ribosomal proteir L15  EST, Weakly similar to EXTRACELLULAR CALCIUM- SENSING RECEPTOR PRECURSO [R.norvegicus], ESTs, Weakly simila to CASR_HUMAN EXTRACELLULA CALCIUM-SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to CASR_HUMAN EXTRACELLULA CALCIUM-SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to CASR_HUMAN EXTRACELLULA CALCIUM-SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to CASR_HUMAN EXTRACELLULA CALCIUM-SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to CASR_HUMAN EXTRACELLULA CALCIUM-SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to CASR_HUMAN EXTRACELLULA CALCIUM-SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to EXTRACELLURA CALCIUM- SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to EXTRACELLURA CALCIUM- SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to EXTRACELLURA CALCIUM- SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to EXTRACELLURA CALCIUM- SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to EXTRACELLURA CALCIUM- SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to EXTRACELLURA CALCIUM- SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to EXTRACELLURA CALCIUM- SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to EXTRACELLURA CALCIUM- SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to EXTRACELURA CALCIUM- SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to EXTRACELURA CALCIUM- SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly similar to EXTRACELURA SENSING RECEPTOR PRECURSOR [R.apiens], ESTs, Weakly si	1629	21078	NM_016986	d	12 straight chain	chain, expressed sequence Al987948
EXTRACELLULAR CALCIUM- SENSING RECEPTOR PRECURSO [R.norvegicus], ESTs, Weakly simila to CASR_HUMAN EXTRACELLULA CALCIUM-SENSING RECEPTOR PRECURSOR [H.sapiens], ESTs, Weakly similar to JC7160 metabotro glutamate receptor subtype 3 precursor - mouse [M.musculus], G protein coupled receptor, family C, group 1, member A, G protein couple receptor, family C, group 1, member Calcium-sensing receptor (hypocalciuric hyperalcemia 1, severe neonatal hyperparathyroidism), vomeronasal 2, receptor, 11, vomeronasal 2, receptor, 11, hyperparathyroidism) vomeronasal 2, receptor, 12  Mus musculus, Similar to cytochrom P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, 4a10, cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, 4a10, cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, 4a14, cytochrome P450, and 1, cytochrome	1630			v q,w		LYSOSOMAL ACID PHOSPHATASE PRECURSOR [R.norvegicus], acid phosphatase 2, lysosomal, acid phosphatase 6, lysophosphatidic, acid phosphatase, prostate, acid phosphatase, testicular EST, Weakly similar to RL15 RAT 608 RIBOSOMAL PROTEIN L15 [R.norvegicus], ESTs, Highly similar to RL15 HUMAN 60S RIBOSOMAL PROTEIN L15 [H.sapiens], ESTs, Moderately similar to RL15 RAT 60S RIBOSOMAL PROTEIN L15 [R.sorvegicus], RIKEN cDNA 2510008H07 gene, ribosomal protein
p450, 4a10, clone MGC:25972 cytochrome P450, IMAGE:4240359, mRNA, complete subfamily IV B, polypeptide cds, RIKEN cDNA A230105L22 generally cytochrome P450, cytochrome P450, 4a10, cytochrome P450, 4a14, cytochrome P450,	1632	45	NM_016996	General	calcium-sensing receptor (hypocalciuric hypercalcemia 1, severe neonatal	EXTRACELLULAR CALCIUM- SENSING RECEPTOR PRECURSOF [R.norvegicus], ESTs, Weakly similar to CASR_HUMAN EXTRACELLULAR CALCIUM-SENSING RECEPTOR PRECURSOR [H.sapiens], ESTs, Weakly similar to JC7160 metabotrop glutamate receptor subtype 3 precursor - mouse [M.musculus], G protein coupled receptor, family C, group 1, member A, G protein coupler receptor, family C, group 1, member C calcium-sensing receptor (hypocalciuric hypercalcemia 1, sever neonatal hyperparathyroidism), vomeronasal 2, receptor, 11,
					cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450,	IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene cytochrome P450, 4a10, cytochrome
633   20714   NM_016999   t   1	1633			1.	subfamily IVB, polypeptide	

TABLE	: HUMAN	HOMOTOGAE VA	CHONATOR		Mily. Docket No. 44921-5039WC Doc. No. 1793397.1
Sog. (D): No 1	ldentifier:	Genden's Acc./ Ref. Seq. ID No.	Model Goden	Honologova Cono Mana : 4: ConeX	Konologous Chalca Namo
1633	20713	NM_016999	t	cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IVB, polypeptide 1	Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, cytochrome P450, 4a14, cytochrome P450, subfamily IVA, polypeptide 11
1633	20711	NM_016999	q,t	cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IVB, polypeptide	Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, cytochrome P450, 4a14, cytochrome P450, subfamily IVA, polypeptide 11
1633	20715	NM 016999	q,t	cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IVB, polypeptide	Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, cytochrome P450, 4a14, cytochrome P450, subfamily IVA, polypeptide 11
1634	1698	NM_017000	e,n,p,General	diaphorase (NADH/NADPH) (cytochrome b-5 reductase), diaphorase 4 (NADH/NADPH)	ESTs, Weakly similar to DHQU RAT NAD(P)H DEHYDROGENASE [R.norvegicus], NAD(P)H menadione oxidoreductase 2, dioxin inducible, NAD(P)H menadione oxidoreductase 2, dioxin-inducible, diaphorase (NADH/NADPH) (cytochrome b-5 reductase), diaphorase 4 (NADH/NADPH)
		·		glucose-6-phosphate dehydrogenase, glucose-6- phosphate dehydrogenase	glucose-6-phosphate dehydrogenase, glucose-6-phosphate dehydrogenase 2, glucose-6-phosphate dehydrogenase X-linked, hexose-6- phosphate dehydrogenase (glucose 1-
1635	1399	NM_017006	h,n,General	X-linked glutathione S-transferase	dehydrogenase) glutathione S-transferase A2,
1637	18989	NM_017013	n	A2, glutathione S- transferase, alpha 2 (Yc2)	glutathione S-transferase, alpha 2 (Yc2) ESTs, Moderately similar to
1638	21013	NM_017014	e,f	glutathione S-transferase M2 (muscle), glutathione S- transferase, mu 2	GLUTATHIONE S-TRANSFERASE YB1 [R.norvegicus], glutathione S- transferase M1, glutathione S- transferase, mu 1
1638	21015	NM_017014	e,General		ESTs, Moderately similar to GLUTATHIONE S-TRANSFERASE YB1 [R.norvegicus], glutathione S- transferase M1, glutathione S- transferase, mu 1
1639	11836	NM_017023	b	potassium inwardly- rectifying channel, subfamily J, member 1	EST, Weakly similar to IRKF MOUSE ATP-SENSITIVE INWARD RECTIFIER POTASSIUM CHANNEL 15 [M.musculus], potassium inwardly-rectifying channel, subfamily J, member 1, potassium inwardly-rectifying channel, subfamily J, member 10, potassium inwardly-rectifying channel, subfamily J, member 15

TABLES	KUMWAN	<u> Yoxorocáls vy</u>	notations :	A CONTRACTOR OF THE PARTY OF TH	, Any, Doctot No. 4/1221-50331/0 Doc. No. 1798397.
Sig.(D) No.:	lientiller	Condonk Ace/ Ref. Sog. IDNo.	Modal (6000 1 +	Homologous Como Name	Homologous Cluster Mame
1639	5475	NM_017023	b	potassium inwardly- rectifying channel, subfamily J, member 1	EST, Weakly similar to IRKF MOUSE ATP-SENSITIVE INWARD RECTIFIER POTASSIUM CHANNEL 15 [M.musculus], potassium inwardly-rectifying channel, subfamily J, member 1, potassium inwardly-rectifying channel, subfamily J, member 10, potassium inwardly-rectifying channel, subfamily J, member 15
1639	25546	NM_017023	b,bb		
			·	lactate dehydrogenase 1, A chain, lactate	ESTs, Highly similar to DEHULM L- tactate dehydrogenase [H.sapiens], ESTs, Moderately similar to DEHULM L-lactate dehydrogenase [H.sapiens], ESTs, Moderately similar to L- LACTATE DEHYDROGENASE M CHAIN [R.norvegicus], ESTs, Weakly similar to DEMSLM L-lactate dehydrogenase [M.musculus], Homo sapiens, Similar to lactate dehydrogenase 1, A chain, clone MGC:23940 IMAGE:3935569, mRNA, complete cds, expressed sequence Al326310, lactate dehydrogenase 1, A chain, lactate dehydrogenase A,
1640	17807	NM 017025	i.General	dehydrogenase A	lactate dehydrogenase C
1641	24597	NM 017040	u	protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform, protein phosphatase 2a, catalytic subunit, beta isoform	Mus musculus adult female placenta cDNA, RIKEN full-length enriched library, clone:1600017J22, full insert sequence, RIKEN cDNA 2310003C10 gene, expressed sequence Al115466, protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform, protein phosphatase 2a, catalytic subunit, beta isoform, protein phosphatase 4, catalytic subunit
	÷			solute carrier family 4 (anlon exchanger), member 2, solute carrier family 4, anlon exchanger, member 2 (erythrocyte membrane protein band 3-	ESTs, Moderately similar to A25104 band 3 protein, nonerythroid [H.sapiens], Human DNA sequence from clone RP4-794l6 on chromosome 20 Contains a gene for a putative oncogene protein, parts of 2 novel genes, ESTs, STSs, GSSs and CpG islands, solute carrier family 4 (anion exchanger), member 2, solute carrier family 4, anion exchanger, member 2 (erythrocyte membrane protein band 3-like 1), solute carrier family 4, sodium bicarbonate cotransporter, member 4, solute carrier family 4, sodium bicarbonate cotransporter, member 9, solute carrier family 4, sodium bicarbonate transporter, member 9, solute carrier family 4, sodium bicarbonate transporter-like, member
1642	24696	NM_017048	f.j.z	like 1)	11

TABLES	s (spārvázi	ĸĠĸofoga <u>e</u> v	- SKONATOKI	The state of the s	
899. (D No. 1-15	relilieb)	CenBink Ace. Rel Seg. ID Nor	Model Gode	Homologous Cond Namo	Homelogous Gluster Namo
					EST, Highly similar to B3A3 RAT ANION EXCHANGE PROTEIN 3 [R.norvegicus], ESTs, Weakly similar to 138496 anion exchanger 3 brain isoform [H.sapiens], Human DNA sequence from clone RP4-79416 on chromosome 20 Contains a gene for a
					putative oncogene protein, parts of 2 novel genes, ESTs, STSs, GSSs and CpG Islands, solute carrier family 4 (anion exchanger), member 3, solute carrier family 4, anion exchanger, member 3, solute carrier family 4, sodium bicarbonate transporter-like,
1643	24695	NM_017049	u		member 11 ESTs, Moderately similar to
			·	superoxide dismutase 1, soluble, superoxide dismutase 1, soluble (amyotrophic lateral	SUPEROXIDE DISMUTASE [M.musculus], copper chaperone for superoxide dismutase, superoxide dismutase 1, soluble, superoxide dismutase 1, soluble (amyotrophic
1644	20876	NM_017050	j,n,z	scierosis 1 (adult)) BCL2-associated X	lateral sclerosis 1 (adult))
1645	910	NM_017059	f,l,m	protein, Bcl2-associated X protein BCL2-associated X	BCL2-associated X protein, Bcl2- associated X protein
1645	912	NM_017059	1	protein, Bcl2-associated X protein	BCL2-associated X protein, Bcl2- associated X protein ESTs, Moderately similar to
			·		LYOX, HUMAN PROTEIN-LYSINE 6- OXIDASE PRECURSOR [H.sapiens], ESTs, Moderately similar to PROTEIN- LYSINE 6-OXIDASE PRECURSOR [R.norvegicus], hypothetical protein FLJ21889, lysyl oxidase, lysyl oxidase- like, lysyl oxidase-like 1, lysyl oxidase-
1646	1946	NM_017061	<u>h</u>	lysyl oxidase	like 2 ESTs, Moderately similar to
					LYOX_HUMAN PROTEIN-LYSINE 6- OXIDASE PRECURSOR [H.sapiens], ESTs, Moderately similar to PROTEIN- LYSINE 6-OXIDASE PRECURSOR [R.norvegicus], hypothetical protein FLJ21889, lysyl oxidase, lysyl oxidase- like, lysyl oxidase-like 1, lysyl oxidase-
1646	1942	NM_017061	t,General	lysyl oxidase	like 2
		·			ESTs, Moderately similar to LYOX_HUMAN PROTEIN-LYSINE 6-OXIDASE PRECURSOR [H.sapiens], ESTs, Moderately similar to PROTEIN-LYSINE 6-OXIDASE PRECURSOR [R.norvegicus], hypothetical protein FLJ21889, lysyl oxidase, lysyl oxidase-like, lysyl oxidase-like 1, lysyl oxidase-
1646	1943	NM_017061	t	lysyl oxidase	like 2 EST, Moderately similar to JH0385
				pleiotrophin, pleiotrophin (hepann binding growth	midkine precursor [H.sapiens], EST, Weakly similar to PTN MOUSE PLEIOTROPHIN PRECURSOR [R.norvegicus], midkine, midkine (neurite growth-promoting factor 2), pleiotrophin, pleiotrophin (hepann
1647	6062	NM_017066	d	factor 8, neurite growth- promoting factor 1)	binding growth factor 8, neurite growth- promoting factor 1)

TABLES	KWMWX),	HOWO FOOD A EVY	ROTATIONS	7+5 NB	''Ally, Docket No. 44221-5033WC Dock No. 1793397.1
Seq. (D. : No. : !!!	ldenilier	ConDeni: Acc/ Ref. Sog. ID No.*	Model Gode •	Homologous Gais Legel	Homologous Cluster Kame
					CD68 antigen, ESTs, Highly similar to LMP2 RAT LYSOSOME- ASSOCIATED MEMBRANE GLYCOPROTEIN 2 PRECURSOR (R.norvegicus), ESTs, Weakly similar to A48042 tysosomal membrane
				lysosomal membrane glycoprotein 2, lysosomal- associated membrane	glycoprotein lamp-2 homolog [H.sapiens], lysosomal membrane glycoprotein 2, lysosomal-associated
1648	6654	NM_017068	w :	protein 2 glutamate-ammonia ligase	membrane protein 2
1649	11153	NM_017073	s	(glutamine synthase), glutamine synthetase	glutamate-ammonia ligase (glutamine synthase), glutamine synthetase DNA segment, Chr 7, ERATO Doi 458,
			·	,	expressed, RIKEN cDNA 2610301B19 gene, RIKEN cDNA 3830421F03 gene, poliovirus receptor, poliovirus receptor-related 2 (herpesvirus entry mediator B), poliovirus receptor-related 3, poliovirus sensitivity, tumor-
1650	923 1523	NM_017076 NM_017079	General s		associated antigen 1 CD1B antigen, b polypeptide, CD1D antigen, d polypeptide, CD1E antigen, e polypeptide, CD1d1 antigen, CD1d2 antigen
	-			hydroxysteroid (11-beta) dehydrogenase 1, hydroxysteroid 11-beta	DNA segment, Chr 14, University of California at Los Angeles 2, ESTs, Weakly similar to CORTICOSTEROID 11-BETA-DEHYDROGENASE, 1SOZYME 1 [R.norvegicus], expressed sequence C79874, hydroxysteroid (11-beta) dehydrogenase 1, hydroxysteroid 11-beta dehydrogenase 1, hydroxysteroid 17-beta dehydrogenase 1, tretinal shortchain dehydrogenase/reductase
1652	23660	NM_017080	S	dehydrogenase 1	retSDR2 Mus musculus, Similar to hydroxysteroid 11-beta
1653	275	NM_017081	b,d,General	hydroxysteroid (11-beta) dehydrogenase 2, hydroxysteroid 11-beta dehydrogenase 2	dehydrogenase 2, clone MGC:25647 IMAGE:4235545, mRNA, complete cds, hydroxysteroid (11-beta) dehydrogenase 2
				uromodulin, uromodulin	RIKEN cDNA 2310037118 gene, tectorin beta, uromodulin, uromodulin (uromucoid, Tamm-Horsfall glycoprotein), zona pellucida
1654	16211	NM_017082	j,s,z	glycoprotein) glycine N-	glycoprotein 1
1655	1552	NM_017084		methyltransferase glycine N-	glycine N-methyltransferase
1655	1550	NM_017084 NM_017087	y a,k,x	methyltransferase	glycine N-methyltransferase  ESTs, Weakly similar to BONE/CARTILAGE PROTEOGLYCAN I PRECURSOR [R.norvegicus], ESTs, Weakly similar to PGS1_HUMAN BONE/CARTILAGE PROTEOGLYCAN I PRECURSOR [H.sapiens], asporin, asporin (LRR class 1), biglycan, opticin

<u>NABŪE</u> 8	r (HUMAN	<u>Konorogáne</u> V	EXOTATIONS		97.9999.50 (1994) 1.7999971 (2011) On seed
Soq (D)	rodina.	ConBenty Accel Rol. Son ID No:	elecollector	Homologous Come	According Europe (1786)
		рам сестри пос			ESTs, Weakly similar to ANPA MOUSE ATRIAL NATRIURETIC PEPTIDE RECEPTOR A PRECURSOR [M.musculus], ESTs, Weakly similar to GUANYLATE CYCLASE SOLUBLE, ALPHA-1 CHAIN [R.norvegicus], guanylate cyclase 1, soluble, alpha 2, guanylate cyclase 1, soluble, alpha 3, guanylate cyclase 1, soluble, alpha 3, guanylate cyclase 1, soluble, beta 3, natriuretic
				guanylate cyclase 1,	peptide receptor 1, soluble guanylyl
1657	8888	NM_017090	m	soluble, alpha 3	cyclase alpha2 subunit
1658	10887	NM_017094	a,General	growth hormone receptor	growth hormone receptor
					ESTs, Highly similar to A Chain A, Cyclophilin A [H.sapiens], ESTs, Weakly similar to PEPTIDYL-PROLYL CIS-TRANS ISOMERASE A [R.norvegicus], KIAA1228 protein, RIKEN cDNA 2310076N22 gene, RIKEN cDNA 4930520F12 gene, expressed sequence Al256741, expressed sequence AW457192, peptidylprolyl isomerase A,
	٠.			peptidylprolyl isomerase A, peptidylprolyl isomerase A	peptidylprolyl isomerase A (cyclophilin A), peptidylprolyl isomerase E
1659	4393	NM_017101	a,y	(cyclophilin A)	(cyclophilin E)
				3.2	blood-brain barrier specific anion transporter, solute carrier family (organic anion transporter) member 10, solute carrier family 21 (organic anion transporter), member 1, solute carrier family 21 (organic anion
<u>*</u> ; •				actute persies family 24	transporter), member 10, solute carrier family 21 (organic anion transporter), member 14, solute carrier family 21 (organic anion transporter), member 3, solute carrier family 21 (organic anion transporter), member 6, solute carrier
	Ì			solute carrier family 21	family 21 (organic anion transporter),
1660	24770	NM 017111	ام	(organic anion transporter), member 1	member 8
1660 1661	24770 20745	NM_017111 NM_017113	d	granulin	granulin
1661	20745	NM 017113	e	granulin	granulin
1001		INIT OF THE			DNA segment, Chr 15, ERATO Doi 412, expressed, ESTs, Highly similar to HIPP RAT NEURON SPECIFIC CALCIUM-BINDING PROTEIN HIPPOCALCIN [R.norvegicus], ESTs, Highly similar to VIS3 MOUSE VISININ LIKE PROTEIN 3 [M.musculus], hippocalcin, hippocalcin-like 1,
1662	1375	NM_017122	w		hypothetical protein FLJ20481
					CD37 antigen, EST, Highly similar to A47629 cell surface glycoprotein CD37 [H.sapiens], Mus musculus, Similar to CD37 antigen, clone MGC:7983 IMAGE:3585492, mRNA, complete cds, oculospanin
1663	12903	NM_017124	jk .	CD37 antigen	ous, ocuiospaniii

TABLE S	inawan.	náluorocn <u>s</u> ty:			- Ally, Docket No. 44921-508900 Doc. No. 1798997.1
800 (D. No. ÷	idaniilar	ConBonk Acel Ref. See. ID No.	Model Gode - M	Hemologova Gano,	Homologous Chistor Vizmo
					EST, Moderately similar to 40S RIBOSOMAL PROTEIN SA [R.norvegicus], ESTs, Highly similar to A31233 ribosomal protein RS.40K,
					cytosolic [H.sapiens], ESTs, Highly similar to A56880 laminin receptor, 67K [H.sapiens], ESTs, Moderately similar to A29395 ribosomal protein RS.40K - mouse [M.musculus], ESTs,
				taminin receptor 1 (67kD,	Weakly similar to 1405340A protein 40kD [M.musculus], Homo sapiens laminin receptor-like protein LAMRL5 mRNA, complete cds, laminin receptor
1664	24885	NM_017138	r	ribosomal protein SA)	1 (67kD, ribosomal protein SA)
					EST, Moderately similar to 40S RIBOSOMAL PROTEIN SA [R.norvegicus], ESTs, Highly similar to
,-					A31233 ribosomal protein RS.40K, cytosolic [H.sapiens], ESTs, Highly similar to A56880 laminin receptor,
					67K [H.sapiens], ESTs, Moderately similar to A29395 ribosomal protein RS.40K - mouse [M.musculus], ESTs, Weakly similar to 1405340A protein
	*			la minima managana 4 (67kD	40kD [M.musculus], Homo sapiens laminin receptor-like protein LAMRL5
1664	24886	NM_017138	d.q	laminin receptor 1 (67kD, ribosomal protein SA)	mRNA, complete cds, laminin receptor 1 (67kD, ribosomal protein SA)
				-	EST, Moderately similar to COF1_HUMAN COFILIN, NON-MUSCLE ISOFOR [H.sapiens], ESTs, Highly similar to DEST_HUMAN DESTRIN [H.sapiens], ESTs,
					Moderately similar to COF1 RAT COFILIN, NON-MUSCLE ISOFORM [R.norvegicus], ESTS, Moderately similar to COF1_HUMAN COFILIN, NON-MUSCLE ISOFOR [H.sapiens],
1665	15363	NM_017147	n.u	cofilin 1 (non-muscle),	cofilin 1 (non-muscle), cofilin 1, non- muscle, cofilin 2 (muscle), cofilin 2, muscle, destrin
1003	10000	(MI_O11141	11,4		EST, Moderately similar to CYSR RAT CYSTEINE-RICH PROTEIN 1
,		·			[R.norvegicus], ESTs, Weakly similar to CYSR RAT CYSTEINE-RICH PROTEIN 1 [R.norvegicus], ESTs, Weakly similar to S12658 cysteine-rich protein [H.saplens], cysteine and glycine-rich protein 1, cysteine rich
1666	13392	NM_017148	u,General		grotein, cysteine-rich protein 2, cysteine-rich protein 3, epithelial protein lost in neoplasm beta, thymus LIM protein

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Seq. id	Televiller	Confinit Acel Rol Son Wilson	Model Gode	Homologous Cono	Konologous Glustor Kemo
		·			EST, Moderately similar to 60S RIBOSOMAL PROTEIN L29 [R.norvegicus], EST, Weakly similar to S65784 ribosomal protein L29, cytosolic [H.sapiens], ESTs, Highly similar to S65784 ribosomal protein
					L29, cytosolic [H.sapiens], ESTs, Weakly similar to 60S RIBOSOMAL PROTEIN L29 [M.musculus], Human DNA sequence from clone RP4- 595K12 on chromosome 1p31.2-31.3
				. 1 4.7 . 1	Contains a pseudogene similar to 60S RPL29 (ribosomal protein L29 (cell surface heparin binding protein HIP)), a chromosome 1 specific mRNA
1667	5351	NM_017150	q	ribosomal protein L29	(KIAA0499), a novel mRNA (KIAA0433), ESTs, STSs, GSSs and a CpG Island, ribosomal protein L29
·					EST, Moderately similar to R3HU15 ribosomal protein S15, cytosolic [H.sapiens], EST, Weakly similar to 40S RIBOSOMAL PROTEIN S15 [R.norvegicus], ESTs, Highly similar to R3HU15 ribosomal protein S15, cytosolic [H.sapiens], Homo sapiens,
1668	16954	NM_017151	a,n	ribosomal protein S15	cione IMAGE:4479080, mRNA, partial cds, ribosomal protein S15 EST, Weakly similar to 40S
					RIBOSOMAL PROTEIN S17 [M.musculus], ESTs, Highly similar to R4HU17 ribosomal protein S17, cytosolic [H.sapiens], ESTs, Moderately similar to R4HU17
1669	21643	NM_017152	g	ribosomal protein S17	ribosomal protein S17, cytosolic [H.sapiens], ribosomal protein S17 EST, Weakly similar to RS3A MOUSE
-				ribosomal protein S3A,	40S RIBOSOMAL PROTEIN S3A [M.musculus], ESTs, Highly similar to JC4662 ribosomal protein S3a, cytosolic [H.sapiens], ribosomal
1670	1694	NM_017153	a,q	ribosomal protein S3a	protein S3A, ribosomal protein S3a EST, Moderately similar to R3HU6
					ribosomal protein S6, cytosolic [H.sapiens], EST, Weakly similar to 40S RIBOSOMAL PROTEIN S6
		, ,			[R.norvegicus], ESTs, Moderately similar to 40S RIBOSOMAL PROTEIN S6 [M.musculus], Homo saplens CDNA: FLJ23534 fis, clone LNG06974, highly similar to HUMRPS6A Human ribosomal protein S6 mRNA, RIKEN
1671	17104	NM_017160	bb,General	ribosomal protein S6	cDNA 5830405M20 gene, ribosomal protein S6
				·	EST, Moderately similar to R3HU6 ribosomal protein S6, cytosolic [H.sapiens], EST, Weakly similar to 40S RIBOSOMAL PROTEIN S6
					[R.norvegicus], ESTs, Moderately similar to 40S RIBOSOMAL PROTEIN S6 [M.musculus], Homo sapiens cDNA: FLJ23534 fis, clone LNG06974, highly sImilar to HUMRPS6A Human ribosomal protein S6 mRNA, RIKEN
1671	17106	NM_017160_	U	ribosomal protein S6	cDNA 5830405M20 gene, ribosomal protein S6

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212	1477 (\$5.50) (\$40)	ConDent Acce Rol SociiD No.	100 M		No. (No. 1793997.1) Komologous Guister Nama
					EST, Moderately similar to R3HU6 ribosomal protein S6, cytosolic [H.sapiens], EST, Weakly similar to 40S RIBOSOMAL PROTEIN S6 [R.norvegicus], ESTs, Moderately similar to 40S RIBOSOMAL PROTEIN S6 [M.musculus], Homo sapiens cDNA: FLJ23534 fis, clone LNG06974, highly similar to HUMRPS6A Human ribosomal protein S6 mRNA, RIKEN cDNA 5830405M20 gene, ribosomal
1671	17107	NM_017160	d,e	ribosomal protein S6	protein S6 EST, Moderately similar to T02747
v				glutathione peroxidase 4, glutathione peroxidase 4 (phospholipid	phospholipid-hydroperoxide glutathione peroxidase [H.sapiens], EST, Weakly similar to T02747 phospholipid-hydroperoxide glutathione peroxidase [H.sapiens], ESTs, Weakly similar to GSHH RAT PHOSPHOLIPID HYDROPEROXIDE GLUTATHIONE PEROXIDASE [R.norvegicus], Homo sapiens PRO2893 mRNA, complete cds, RIKEN cDNA 2310016C16 gene, RIKEN cDNA 3110050F08 gene, glutathione peroxidase 4, glutathione peroxidase 4 (phospholipid
1672	17686	NM_017165	n,q	hydroperoxidase)	hydroperoxidase)
1673	20702	NM_017166	c		ESTs, Weakly similar to STHM MOUSE STATHMIN [M.musculus], Homo sapiens (clone B3B3E13) Huntington's disease candidate region mRNA fragment, leukemia-associated gene, stathmin 1/oncoprotein 18
10/3	20102	11 100		choline kinase-like,	EST, Weakly similar to KICE MOUSE CHOLINE/ETHANOLAMINE KINASE [M.musculus], ESTs, Weakly similar to KICE RAT CHOLINE/ETHANOLAMINE KINASE [R.norvegicus], Homo sapiens, Similar to hypothetical protein FLJ10761, clone MGC:19512 IMAGE:4329734, mRNA, complete cds, Mus musculus mRNA for choline/ethanolamine kinase, complete cds, RIKEN cDNA 49305551.11 gene, choline kinase-like, choline/ethanolamine kinase,
1674	3513	NM 017177	r	choline/ethanolamine kinase	ethanolamine kinase, hypothetical protein FLJ10761
				T-cell death associated	ESTs, Weakly similar to S58222 PQrich protein [H.sapiens], MARCKS-like protein, Mus musculus 8 days embryo cDNA, RIKEN full-length enriched library, clone:5730519L10, full insert sequence, Myristoylated alanine-rich protein kinase C substrate, myristoylated alanine rich protein kinase C substrate, myristoylated alanine-rich protein kinase C substrate (MARCKS, 80K-L), pleckstrin homology-like domain, family A, member 1, pleckstrin homology-like
				gene, pleckstrin homology- like domain, family A,	domain, family A, member 3, tumor suppressing subtransferable candidate
1675	19031	NM_017180	v,General	member 1	3

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					EST, Moderately similar to HMG2 RAT HIGH MOBILITY GROUP PROTEIN HMG2 [R.norvegicus], EST, Weakly similar to HMG2 RAT HIGH MOBILITY GROUP PROTEIN HMG2 [R.norvegicus], ESTs, Weakly similar to 2001363A hIgh mobility group protein 2 [H.sapiens], ESTs, Weakly similar to HMG2 RAT HIGH MOBILITY GROUP PROTEIN HMG2 [R.norvegicus], Human DNA sequence from clone RP3-527B10 on chromosome 6q25.1-25.3 Contains a pseudogene similar to HMG (high mobility group) protein, STSs and
					GSSs, Human DNA sequence from clone RP5-1007G16 on chromosome 1p34.2-35.3. Contains part of the gene for a novel CUB and Sushi (SCR repeat) domain protein, a novel high-mobility group (nonhistone chromosomal) protein 2 (HMG2) like protein (pseudo) gene, a heat shock 60kD protein 1 (chaperonin) (HSPD1) pseudogene, ESTs, STSs and GSSs, RIKEN cDNA 2610021J01 gene, expressed sequence Al326135, expressed sequence C80539, high mobility group box 2, high-mobility group (nonhistone chromosomal)
1676	15437	NM_017187	x,z		protein 2 EST, Moderately similar to HMG2 RAT
ž			*		HIGH MOBILITY GROUP PROTEIN HMG2 [R.norvegicus], EST, Weakly similar to HMG2 RAT HIGH MOBILITY GROUP PROTEIN HMG2 [R.norvegicus], ESTs, Weakly similar to 2001363A high mobility group protein 2 [H.sapiens], ESTs, Weakly similar to HMG2 RAT HIGH MOBILITY GROUP PROTEIN HMG2 [R.norvegicus], Human DNA sequence
				·	from clone RP3-527810 on chromosome 6q25.1-25.3 Contains a pseudogene similar to HMG (high mobility group) protein, STSs and GSSs, Human DNA sequence from clone RP5-1007G16 on chromosome 1p34.2-35.3. Contains part of the gene for a novel CUB and Sushi (SCR repeat) domain protein, a novel highmobility group (nonhistone chromosomal) protein 2 (HMG2) like
1676	15433	NM_017187	у		protein (pseudo) gene, a heat shock 60kD protein 1 (chaperonin) (HSPD1) pseudogene, ESTs, STSs and GSSs, RIKEN cDNA 2610021J01 gene, expressed sequence Al326135, expressed sequence C80539, high mobility group box 2, high-mobility group (nonhistone chromosomal) protein 2

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					EST, Moderately similar to HMG2 RAT HIGH MOBILITY GROUP PROTEIN
					HMG2 [R.norvegicus], EST, Weakly
					similar to HMG2 RAT HIGH MOBILITY
					GROUP PROTEIN HMG2 [R.norvegicus], ESTs, Weakly similar
	ĺ				to 2001363A high mobility group
					protein 2 [H.sapiens], ESTs, Weakly similar to HMG2 RAT HIGH MOBILITY
					GROUP PROTEIN HMG2
					[R.norvegicus], Human DNA sequence from clone RP3-527810 on
	ŀ				chromosome 6q25.1-25.3 Contains a
					pseudogene similar to HMG (high mobility group) protein, STSs and
					GSSs, Human DNA sequence from
			•		clone RP5-1007G16 on chromosome
					for a novel CUB and Sushi (SCR
					repeat) domain protein, a novel high-
					mobility group (nonhistone chromosomal) protein 2 (HMG2) like
					protein (pseudo) gene, a heat shock
					60kD protein 1 (chaperonin) (HSPD1) pseudogene, ESTs, STSs and GSSs,
					RIKEN cDNA 2610021J01 gene,
					expressed sequence Al326135, expressed sequence C80539, high
					mobility group box 2, high-mobility
4076	15434	NIA 047497	x,z		group (nonhistone chromosomal) protein 2
1676	15454	NM_017187			CD33 antigen, CD33 antigen (gp67),
					ESTs, Weakly similar to MYELIN- ASSOCIATED GLYCOPROTEIN
		,			PRECURSOR [R.norvegicus], Homo
·				malignancy-associated protein, myelin-associated	sapiens HSPC078 mRNA, partial cds, myelin associated glycoprotein, myelin-
1677	24437	NM 017190	р	glycoprotein	associated glycoprotein
					ESTs, Weakly similar to S48737 kynurenine aminotransferase - rat
				L-kynurenine/alpha-	[R.norvegicus], cysteine conjugate-
				aminoadipate	beta lyase; cytoplasmic (glutamine
				aminotransferase, kynurenine	transaminase K, kyneurenine aminotransferase), hypothetical protein
1678	1542	NM_017193	j,l,m,z	aminotransferase II	669
				+	EST, Weakly similar to COX4_HUMAN CYTOCHROME C OXIDASE
					POLYPEPTIDE IV PRECURSO
					[H.sapiens], cytochrome c oxidase subunit IV, cytochrome c oxidase
	ļ				subunit IV isoform 2, cytochrome c
			1		oxidase subunit IV isoform 2 precursor, cytochrome c oxidase,
					subunit IVa, cytochrome c oxidase,
4670	14605		l	4	subunit IVb, expressed sequence AL024441
1679	14695	NM_017202	q,s		EST, Weakly similar to COX4_HUMAN
			1		CYTOCHROME C OXIDASE
ļ	ļ				POLYPEPTIDE IV PRECURSO [H.sapiens], cytochrome c oxidase
					subunit IV, cytochrome c oxidase
					subunit IV isoform 2, cytochrome c oxidase subunit IV isoform 2
					precursor, cytochrome c oxidase,
			1		subunit IVa, cytochrome c oxidase, subunit IVb, expressed sequence
1679	14694	NM_017202	s,z	<u></u>	AL024441

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1680	1428	NM_017213	m	outer dense fiber of sperm tails 2, outer dense fibre of sperm tails 2	ESTs, Highly similar to T09400 outer dense fiber protein 2 - mouse [M.musculus], KIAA1229 protein, Myosin heavy chain 11, Myosin, heavy polypeptide 9, non-muscle, expressed sequence C80049, myosin, heavy polypeptide 9, non-muscle, outer dense fiber of sperm tails 2, outer dense fibre of sperm tails 2
1681	1622	NM 017216	g.j.s,z	solute carrier family 3 (cystine, dibasic and neutral amino acid transporters, activator of	ESTs, Moderately similar to 1914205A AA transporter [H.sapiens], putative L-type neutral amino acid transporter, solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2, solute carrier family 3 (cystine, dibasic and neutral amino acid transporters, activator of cystine, dibasic and neutral amino acid transport), member 1, solute carrier family 3, member 1
1682	13642	NM 017220	v		
1683	1510	NM_017224	<b>W</b> General		EST, Moderately similar to JC4884 organic cation transporter protein 2 - rat [R.norvegicus], EST, Weakly similar to OCN2 MOUSE ORGANIC CATION/CARNITINE TRANSPORTER 2 [M.musculus], ESTs, Highly similar to OCN2 HUMAN ORGANIC CATION/CARNITINE TRANSPORTER 2 [H.sapiens], ESTs, Highly similar to organic cation transporter [H.sapiens], solute carrier family 22 (organic cation transporter), member 1, solute carrier family 22 (organic cation transporter), member 4, solute carrier family 22 (organic cation transporter), member 5, solute carrier family 22 (organic cation transporter), member 5, solute carrier family 22, member 9, solute carrier family 22, member 2, solute carrier family 22, member 3, solute carrier family 22, member 3  ESTs, Moderately similar to DRPL RAT ATROPHIN-1 [R.norvegicus].
1684	1811	NM_017228	j.l.m.z	dentatorubral pallidoluysian atrophy, dentatorubral- pallidoluysian atrophy (atrophin-1)	ESTs, Weakly similar to G01763 atrophin-1 [H.sapiens], Homo sapiens, clone IMAGE:4153246, mRNA, partial cds, RIKEN cDNA 2310009E07 gene, RIKEN cDNA 2810012K09 gene, arginine-glutamic acid dipeptide (RE) repeats, dentatorubral-pallidoluysian atrophy, dentatorubral-pallidoluysian atrophy (atrophin-1), expressed sequence C78339, formin EST, Weakly similar to EFHU2 translation elongation factor eEF-2 [H.sapiens], ESTs, Highly similar to ELONGATION FACTOR 2 [R.norvegicus], ESTs, Weakly similar to ELONGATION FACTOR 2 [R.norvegicus], G1 to phase transition 1, G1 to phase transition 2, RIKEN cDNA 4930594C11 gene, U5 snRNP-
1686	17563	NM_017245	a,c,e,q	eukaryotic translation elongation factor 2	specific protein, 116 kD, eukaryotic translation elongation factor 1 alpha 1, eukaryotic translation elongation factor 2, expressed sequence Al451340, hypothetical protein FLJ21661

TABLEŞ	៖ ដេលសេសវ៉ា	<u> HOŢĪÓFOĞNĒVI</u>			
Sog, [D;*	learmar tearmor	ConBank Acc./) Ref. Seg. ID No.!	Modelie och	Momelegewell Manus : comeN	Homologicka (Elvetor Namo
					ESTs, Highly similar to ROA1 RAT HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 [R.norvegicus], ESTs, Moderately similar to Up1, The Two Rna- Recognition Motif Domain Of Hnmp A1
		•			(SUB 3-184 [H.sapiens], ESTs, Weakly similar to ROA1 RAT HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 [R.norvegicus], ESTs, Weakly similar
			-		to heterogeneous ribonuclear particle protein A1 [H.saplens], Human DNA sequence from clone RP11-51N22 on chromosome 13 Contains ESTs, STSs and GSSs. Contains an HNRPA1 (heterogeneous nuclear ribonucleoprotein A1) pseudogene,
1687	17502	NM 017248	r	heterogeneous nuclear ribonucleoprotein A1	RIKEN cDNA 4930547K05 gene, heterogeneous nuclear ribonucleoprotein A1
					ESTs, Highly similar to ROA1 RAT HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 [R.norvegicus], ESTs, Moderately
					similar to Up1, The Two Rna- Recognition Motif Domain Of Hnmp A1 (SUB 3-184 [H.sapiens], ESTs, Weakly similar to ROA1 RAT
	٠.				HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 [R.norvegicus], ESTs, Weakly similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], Human DNA sequence from clone RP11-51N22 on chromosome 13 Contains ESTs, STSs
				heteraceana augleor	and GSSs. Contains an HNRPA1 (heterogeneous nuclear ribonucleoprotein A1) pseudogene, RIKEN cDNA 4930547K05 gene, heterogeneous nuclear
1687	17501	NM_017248	x	heterogeneous nuclear ribonucleoprotein A1	ribonucleoprotein A1
			·	·	B-cell translocation gene 1, anti- proliferative, ESTs, Weakly similar to BTG1 RAT BTG1 PROTEIN [R.norvegicus], transducer of ERBB2,
1688	19	NM_017258	v,General	B-cell translocation gene 1, anti-proliferative	1, transducer of ERBB2, 2, transducer of ErbB-2.1
					B-cell translocation gene 2, anti- proliferative, B-cell translocation gene 3, B-cell translocation gene 4, BTG family, member 2, BTG family,
1689	15300	NM_017259	i,v,cc,General	B-cell translocation gene 2, anti-proliferative, BTG family, member 2	member 3, BTG family, member 4, ESTs, Highly similar to BTG2_HUMAN BTG2 PROTEIN PRECURSOR [H.sapiens]
					B-cell translocation gene 2, anti- proliferative, B-cell translocation gene 3, B-cell translocation gene 4, BTG family, member 2, BTG family,
1689	15301	NM_017259	I,m,v,aa,cc,Gener	B-cell translocation gene 2, anti-proliferative, BTG family, member 2	member 3, BTG family, member 4, ESTs, Highly similar to BTG2_HUMAN BTG2 PROTEIN PRECURSOR [H.sapiens]

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Seg. (D):	es et e	Condeni: Acc./6 Rel Seq. ID No.	Modal Goda	Mondogova Gono Mano	Homologous Gluster Name
				B-cell translocation gene 2, anti-proliferative, BTG	B-cell translocation gene 2, anti- proliferative, B-cell translocation gene 3, B-cell translocation gene 4, BTG family, member 2, BTG family, member 3, BTG family, member 4, ESTs, Highly similar to BTG2_HUMAN BTG2 PROTEIN PRECURSOR
1689	15299	NM_017259	I,y,cc,General	family, member 2	[H.sapiens]
1690	15224	NM 017264	d	protease (prosome, macropain) 28 subunit, alpha, proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)	EST, Moderately similar to A Chain A, Proteasome Activator Reg(Alpha) (SUB 4-63 [H.sapiens], proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)
				proteasome (prosome, macropain) subunit, alpha type 3, proteasome (prosome, macropain)	multicatalytic endopeptidase complex [H.saplens], ESTs, Highly similar to PRC8 MOUSE PROTEASOME COMPONENT C8 [M.musculus], ESTs, Highly similar to PROTEASOME COMPONENT C8 [R.norvegicus], ESTs, Weakly similar to SNHUC8 multicatalytic endopeptidase complex [H.saplens], proteasome (prosome, macropain) subunit, alpha type 3, proteasome (prosome, macropain) subunit, alpha
1691	3987	NM_017280	bb	subunit, alpha type, 3	type, 3 EST, Weakly similar to SNHUC9
1692	1447	NM 017281	"	proteasome (prosome, macropain) subunit, alpha type 4, proteasome (prosome, macropain) subunit, alpha type, 4	multicatalytic endopeptidase complex [H.sapiens], proteasome (prosome, macropain) subunit, alpha type 4, proteasome (prosome, macropain) subunit, alpha type, 4
1693	15535	NM 017283	s,bb	proteasome (prosome, macropain) subunit, alpha type 6, proteasome (prosome, macropain) subunit, alpha type, 6	ESTs, Weakly similar to PRCI_HUMAN PROTEASOME IOTA CHAIN [R.norvegicus], proteasome (prosome, macropain) subunit, alpha type 6, proteasome (prosome, macropain) subunit, alpha type, 6
1694	12349	NM 017290	General	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	
				calcium channel, voltage- dependent, L type, alpha	EST, Highly similar to CCAD MOUSE VOLTAGE-DEPENDENT L-TYPE CALCIUM CHANNEL ALPHA-1D SUBUNIT [M.musculus], EST, Moderately similar to CCAD MOUSE VOLTAGE-DEPENDENT L-TYPE CALCIUM CHANNEL ALPHA-1D SUBUNIT [M.musculus], EST, Moderately similar to CCAD RAT VOLTAGE-DEPENDENT L-TYPE CALCIUM CHANNEL ALPHA-1D SUBUNIT [R.norvegicus], RIKEN cDNA 8430418G19 gene, calcium channe, voltage-dependent, alpha 1F subunit, calcium channel, voltage-dependent, alpha 1F subunit, calcium channel, voltage-dependent, alpha 1F subunit, polycystic kidney
1695	15819	NM_017298	ip .	1D subunit	disease 2-like 2

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CG. (D)	ldentifier	Carean's Acce Ref. Seq. ID No:	Model Code	Honologous Geno Nemo : : : : : : : : : : : : : : : : : : :	Homologous Cluster Name
696	23825	NM 017299	v	solute carrier family 19 (folate transporter), member 1, solute carrier family 19 (sodium/hydrogen exchanger), member 1	expressed sequence AW322295, solute carrier family 19 (folate transporter), member 1, solute carrier family 19 (sodium/hydrogen exchanger), member 1, solute carrier family 19 (sodium/hydrogen exchanger), member 3, solute carrier family 19 (thiamine transporter), member 2, solute carrier family 19, member 3
696	23826	NM_017299	v	solute carrier family 19 (folate transporter), member 1, solute carrier family 19 (sodium/hydrogen exchanger), member 1	expressed sequence AW322295, solute carrier family 19 (folate transporter), member 1, solute carrier family 19 (sodium/hydrogen exchanger), member 1, solute carrier family 19 (sodium/hydrogen exchanger), member 3, solute carrier family 19 (thiamine transporter), member 2, solute carrier family 19, member 3
1697	14003	NM_017305	j,l,m,y,z	glutamate-cysteine ligase , modifier subunit, glutamate- cysteine ligase, modifier subunit	ESTs, Highly similar to GSH0_HUMA GLUTAMATE—CYSTEINE LIGASE REGULATORY SUBUNIT [H.sapiens glutamate-cysteine ligase, modifier subunit, glutamate-cysteine ligase, modifier subunit
698	26109	NM_017306	q,s		
1698	18687	NM_017306	g.t	dodecenoyl-Coenzyme A delta isomerase (3,2 trans- enoyl-Coenyme A isomerase), dodecenoyl- Coenzyme A delta isomerase (3,2 trans-enoyl- Coenzyme A isomerase)	ESTs, Highly similar to D3D2 RAT 3,2 TRANS-ENOYL-COA ISOMERASE, MITOCHONDRIAL PRECURSOR [R.norvegicus], Homo sapiens, Similar to dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), clone MGC:3903 IMAGE:3630566, mRNA, complete cds, dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), dodecenoyl-Coenzyme A delta isomerase) and delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase).
1699	18142	NM_017314	g,s,aa		polyubiquitin 4 - mouse [M.musculus] EST, Weakly similar to JE0190 polyubiquitin unit [H.sapiens], Homo sapiens UBBP2 pseudogene for ubiquitin UBB, RIKEN cDNA 2700054004 gene, expressed sequence AI194771, expressed sequence AL033289, ubiquitin B, ubiquitin C cathepsin S
1700	1894	NM_017320	l .	<del> </del>	Calmodulin 1 (phosphorylase kinase,
				calmodulin 2, calmodulin 2 (phosphorylase kinase,	delta), Calmodulin III, ESTs, Highly similar to A Chain A, Calmodulin Complexed With Calmodulin-Binding Peptide From Smooth Muscle Myosir Light Chain Kinase (SUB 2-148 [H.sapiens], R.norvegicus CaMII retropseudogene (clone lambda SC27), RIKEN cDNA 2310068O22 gene, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta),
	20809	NM_017326	l.,	delta)	calmodulin 3, calmodulin-like 3
1701		114141 0 17 320	lu	(UCIND)	Tourne of commercial mane of

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					ESTs, Highly similar to ACYL- COENZYME A OXIDASE, PEROXISOMAL [R.norvegicus], ESTs, Highly similar to CAOP_HUMAN ACYL- COENZYME A OXIDASE, PEROXISOMAL [H.sapiens], RIKEN
					cDNA 1300003009 gene, RIKEN cDNA 2310016C19 gene, acetyl-Coenzyme A dehydrogenase, short chain, acyl-Coenzyme A oxidase 2, branched chain, isovaleryl coenzyme
1703	16148	NM_017340	q,s		A dehydrogenase  ESTs, Highly similar to ACYL-
·	·				COENZYME A OXIDASE, PEROXISOMAL [R.norvegicus], ESTs, Highly similar to CAOP_HUMAN ACYL- COENZYME A OXIDASE, PEROXISOMAL [H.sapiens], RIKEN cDNA 1300003009 gene, RIKEN cDNA 2310016C19 gene, acetyl- Coenzyme A dehydrogenase, short
	·		·		chain, acyl-Coenzyme A oxidase 2, branched chain, isovaleryl coenzyme
1703	16150	NM_017340	a		A dehydrogenase
					ESTs, Weakly similar to MOHULP myosin regulatory light chain, placental [H.sapiens], RIKEN cDNA 2900073G15 gene, expressed sequence C77744, myosin, light polypeptide, regulatory, non-
1704	20849	NM_017343	r,u,General		sarcomeric (20kD)
					ESTs, Weakly similar to MOHULP myosin regulatory light chain, placental [H.sapiens], RIKEN cDNA 2900073G15 gene, expressed sequence C77744, myosin, light polypeptide, regulatory, non-
1704	20848	NM_017343	b.General		sarcomeric (20kD)  GPI-anchored metastasis-associated
1705	606	NM 017350	Ь		protein homolog, metastasis- associated GPI-anchored protein, plasminogen activator, urokinase receptor, urokinase plasminogen activator receptor
1100					ESTs, Weakly similar to LIM PROTEIN CLP36 [R.norvegicus], PDZ and LIM domain 1 (elfin), PDZ and LIM domain 3, PDZ-LIM protein mystique, RIKEN cDNA 1110003B01 gene, Rattus norvegicus LIM-domain protein LMP-1 mRNA, complete cds, Z-band alternatively spliced PDZ-motif, actinin alpha 2 associated LIM protein, alpha-
1706	1581	NM_017365	General	PDZ and LIM domain 1 (elfin)	actinin-2-associated LIM protein, reversion induced LIM gene
1707	455	NM_019131	x	tropomyosin 1 (alpha), tropomyosin 1, alpha	ESTs, Moderately similar to alpha- tropomyosin slow [M.musculus], tropomyosin 4
1707	456	NM_019131	y.z	tropomyosin 1 (alpha), tropomyosin 1, alpha	ESTs, Moderately similar to alpha- tropomyosin slow [M.musculus], tropomyosin 4

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	ldaniiia7	Corbark Aced Rok Segilb No.		Homologous Gare Namo 11: 4. 4.44	Honologous Giustor Kenns
				solute carrier family 12 (sodium/potassium/chlorid e transporters), member 1, solute carrier family 12,	EST, Weakly similar to NKC2_HUMAI BUMETANIDE-SENSITIVE SODIUM-(POTASSIUM)-CHLORIDE COTRANSPORTER 2 (KIDNEY-SPECIFIC NA-K-CL SYMPORTER) [H.sapiens], expressed sequence AI788571, hypothetical protein FLJ23188, solute carrier family 12 (sodium/potassium/chloride transporters), member 1, solute carrier family 12, member 1, solute carrier
1708	4532	NM_019134	<u>b</u>	member 1	family 12, member 2 ESTs, Moderately similar to SNG1
					RAT SYNAPTOGYRIN 1 [R.norvegicus], synaptogyrin 1,
1709	1608	NM_019166	j,y,z	synaptogyrin 1 synuclein, alpha,	synaptogyrin 3, synaptogyrin 4
				synuclein, alpha (non A4 component of amyloid	synuclein, alpha, synuclein, alpha (nor A4 component of amyloid precursor),
1710	7489	NM_019169	c,General	precursor)	synuclein, beta, synuclein, gamma ESTs, Weakly similar to JC5284
				*	carbonyl reductase (NADPH) (EC 1.1.1.184), inducible - rat [R.norvegicus], Homo sapiens, clone MGC:23280 IMAGE:4637504, mRNA, complete cds, RIKEN cDNA 1110001J05 gene, RIKEN cDNA 9430059D04 gene, carbonyl reductase 1, carbonyl reductase 3, expressed
1711	17066	NM_019170	Р	· · · · · · · · · · · · · · · · · · ·	sequence C81353 ESTs, Weakly similar to CARBONIC
1712	23924	NM_019174	bb	carbonic anhydrase 4, carbonic anhydrase IV	ANHYDRASE IV PRECURSOR [R.norvegicus], carbonic anhydrase 15, carbonic anhydrase 4, carbonic anhydrase IV, carbonic anhydrase XIV, expressed sequence AW456718
17 12	20024	1000017		·	ADP-ribosylation factor-like 4, ADP- ribosylation factor-like 7, ADP- ribosylation-like 4, ESTs, Weakly similar to ARL4 MOUSE ADP- RIBOSYLATION FACTOR-LIKE PROTEIN 4 [M.musculus], Mus musculus, Similar to ADP-ribosylation
1713	24019	NM_019186	ŀ	ADP-ribosylation factor-like 4. ADP-ribosylation-like 4	like 4, clone MGC:5774 IMAGE:3599701, mRNA, complete cd
				CD47 antigen (Rh-related antigen, integrin- associated signal transducer), integrin-	
1714	22063	NM_019195	d	associated protein	ESTs, Weakly similar to GRG MOUSE
1715	2079	NM 019220	j,k,z		GRG PROTEIN [R.norvegicus], amino terminal enhancer of split

		<u>Koriorogns</u> VX	The state of the s	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Ally, Docket No. 4424-573300 Doc, No. 1793897.1
Socj.(D) No:	Medillier	Cilenkaca Relenikaca	Model (Gode)	Homologovs Cons Nama - 1884 - 1884 - 1	Homologous Cluster Name
	<u>ueannier</u>	Kara Saga Isa Kasa			EST, Moderately similar to T31429 K-CI cotransport protein KCC1, furosemide-sensitive - rat [R.norvegicus], EST, Weakly similar to T31429 K-CI cotransport protein KCC1, furosemide-sensitive - rat [R.norvegicus], ESTs, Highly similar to T17275 hypothetical protein DKFZp434D2135.1 [H.sapiens], Mus musculus strain ILS K-CI cotransporter (Sic12a5) mRNA, complete cds, Rattus norvegicus ccc6 mRNA for cation-chloride cotransporter 6, complete cds, expressed sequence AW546649, solute carmer family 12
1716	16284	NIM 040220	l,m	solute carrier family 12 (potassium/chloride transporters), member 4, solute carrier family 12, member 4	(potassium/chloride transporters), member 4, solute carrier family 12 (potassium/chloride transporters), member 6, solute carrier family 12 (potassium/chloride transporters), member 7, solute carrier family 12, member 2, solute carrier family 12, member 4, solute carrier family 12, member 7
1710	10204	NM_019229	1,111	small inducible cytokine subfamily A (Cys-Cys),	
1717	985	NM_019233	b,cc	member 20, small inducible cytokine subfamily A20	small inducible cytokine subfamily A (Cys-Cys), member 20, small inducible cytokine subfamily A20 EST, Weakly similar to PCO1 HUMAN
1718	15503	NM 019237	k,x	procollagen C- endopeptidase enhancer, procollagen C-proteinase enhancer protein	PROCOLLAGEN C-PROTEINASE ENHANCER PROTEIN PRECURSOR [H.sapiens], Homo sapiens cDNA FLJ12558 fis, clone NT2RM4000787, Mus musculus CSMD1 (Csmd1) mRNA, complete cds, RIKEN cDNA 2400001018 gene, expressed sequence Al043106, membrane-type frizzled-related protein, procollagen C- endopeptidase enhancer, procollagen C-endopeptidase enhancer 2, procollagen C-proteinase enhancer protein
	115503	NM_019237		procollagen C-endopeptidase enhancer,	EST, Weakly similar to PCO1_HUMAN PROCOLLAGEN C-PROTEINASE ENHANCER PROTEIN PRECURSOR [H.sapiens], Homo sapiens cDNA FLJ12558 fis, clone NT2RM4000787, Mus musculus CSMD1 (Csmd1) mRNA, complete cds, RIKEN cDNA 240001018 gene, expressed sequence Al043106, membrane-type frizzled-related protein, procollagen C-endopeptidase enhancer, procollagen C-endopeptidase enhancer 2,
1718	15504	NM_019237	k,x	procollagen C-proteinase enhancer protein	procollagen C-proteinase enhancer protein
1719	17908	NM_019242	I.v.cc,General	interferon-related developmental regulator 1	ESTs, Weakly similar to INTERFERON RELATED PROTEIN PC4 [R.norvegicus], interferon-related developmental regulator 1, interferon-related developmental regulator 2 paired-like homeodomain transcription
	14040	hina 040047		paired-like homeodomain	factor 1, paired-like homeodomain transcription factor 2, palred-like homeodomain transcription factor 3
1720	11218	NM_019247	C	transcription factor 3_	Inomeodoman nanscription lactor 3

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1721	15259	NM 019259	d,f	complement component 1, q subcomponent binding protein	DNA segment, Chr 11, Wayne State University 182, expressed, complement component 1, q subcomponent binding protein, expressed sequence AA986492
				complement component 1, q subcomponent, beta	C1q-related factor, Homo sapiens, Similar to complement component 1, q subcomponent, c polypeptide, clone MGC:17279 IMAGE:4212772, mRNA, complete cds, complement component 1, q subcomponent, beta polypeptide, complement component 1, q subcomponent, c polypeptide,
1722	21443	NM_019262	aa,General	polypeptide	expressed sequence Al385742 C1q-related factor, Homo sapiens, Similar to complement component 1, q subcomponent, c polypeptide, clone MGC:17279 IMAGE:4212772, mRNA, complete cds, complement component 1, q subcomponent, beta polypeptide,
1722	21444	NM_019262	t,General	complement component 1, q subcomponent, beta polypeptide	complement component 1, q subcomponent, c polypeptide, expressed sequence Al385742 ESTs, Highly similar to voltage gated
			;		Na channel Scn8a [M.musculus], Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230108N10, full insert sequence, hypothetical protein MGC15619, sodium channel, voltage gated, type VIII, alpha polypeptide,
		AU 040056		sodium channel, voltage gated, type VIII, alpha polypeptide, sodium channel, voltage-gated, type VIII, alpha polypeptide	sodium channel, voltage-gated, type II, alpha 2 polypeptide, sodium channel, voltage-gated, type III, alpha polypeptide, sodium channel, voltage- gated, type VIII, alpha polypeptide
1723	117	NM_019266	o,bb	gap junction membrane channel protein alpha 5, gap junction protein, alpha	galed, type viii, apia polypopado
1724	1145	NM_019280_	w	alcohol dehydrogenase 1, complex, alcohol dehydrogenase 1A (class	ESTs, Weakly similar to ADHA MOUSE ALCOHOL DEHYDROGENASE A CHAIN [M.musculus], alcohol dehydrogenase 1A (class I), alpha polypeptide, alcohol dehydrogenase 1B (class I), beta polypeptide, expressed sequence A1194826, nuclear receptor binding
1725	22220	NM_019286	С	I), alpha polypeptide	Factor 1 EST, Highly similar to AR41_HUMAN ARP2/3 COMPLEX 41 KDA SUBUNIT [H.sapiens], ESTs, Moderately similar to AR41_HUMAN ARP2/3 COMPLEX 41 KDA SUBUNIT [H.sapiens], actin related protein 2/3 complex, subunit 1A (41 kD), actin related protein 2/3 complex, subunit 1A (41 kDa), actin related protein 2/3 complex, subunit 1B (41 kDa), expressed sequence
1726	10015	NM_019289	I.m.t.x.General		AA408064, suppressor of profilin/p41 of actin-related complex 2/3

TABLE, E	KINDWAN	HOWOLOGAE VIX	. exonation	A STATE OF THE STA	Ally, Docket No. 44921-5039WG
800. ID No	THE PARTY	ලියාවෙනුබැරුල්ල.//	Model Gode	Homologous Gans (1)	
1726	10016	NM_019289	bb,General		EST, Highly similar to AR41_HUMAN ARP2/3 COMPLEX 41 KDA SUBUNIT [H.sapiens], ESTs, Moderately similar to AR41_HUMAN ARP2/3 COMPLEX 41 KDA SUBUNIT [H.sapiens], actin related protein 2/3 complex, subunit 1A (41 kD), actin related protein 2/3 complex, subunit 1B (41 kDa), actin related protein 2/3 complex, subunit 1B (41 kDa), expressed sequence AA408064, suppressor of profilin/p41 of actin-related complex 2/3
					RIKEN cDNA 2310015O17 gene, RIKEN cDNA 4933411O17 gene, cell division cycle 2 homolog A (S. pombe) cell division cycle 2, G1 to S and G2 to M, cyclin-dependent kinase-like 1 (CDC2-related kinase), cyclin- dependent kinase-like 2 (CDC2-related kinase), cyclin-dependent kinase-like 3, expressed sequence Al852479,
	21651	NM_019296	C.f.x		serine/threonine kinase NKIATRE beta CUB and Sushi multiple domains 1, ESTs, Highly similar to I73012 complement C3b/C4b receptor, membrane-bound form precursor [H.sapiens], ESTs, Weakly similar to JC2054 complement regulatory protein, 512 antigen precursor - rat [R.norvegicus], Mus musculus 8 days embryo cDNA, RIKEN full-length enriched library, clone:5730478H20, full insert sequence, complement component (3b/4b) receptor 1, including Knops blood group system, complement receptor related protein, decay accelerating factor 1, decay accelerating factor 2, membrane
1728	20751	NM_019301	5	solute carrier family 12 (sodium/chloride transporters), member 3,	cofactor protein  ESTs, Moderately similar to PC4180 thiazide-sensitive sodium-chloride cotransporter [H.sapiens], ESTs, Moderately similar to thiazide-sensitive Na-CI cotransporter [M.musculus], ESTs, Weakly similar to BUMETANIDE-SENSITIVE SODIUM- (POTASSIUM)-CHLORIDE COTRANSPORTER 2 [M.musculus], expressed sequence Al788571, solute carrier family 12 (sodium/chloride transporters), member 3, solute carrier family 12, member 1, solute carrier
1729	645	NM_019345	bb	solute carrier family 12, member 3	family 12, member 3
1730	1301	NM 019349	c		<del>                                     </del>

TABLE	e chámán		1m		AMY, Docket No. 44221-5035WC
Sog. ID No. :	ldenditer	GinDink Accel Rok Son (D Not	Model Godo	Homologous Cone	Cmis/Nation Exogological
					ESTs, Moderately similar to BMCP_HUMAN BRAIN MITOCHONDRIAL CARRIER PROTEIN-1 [H.sapiens], RIKEN cDNA 3632410G24 gene, RIKEN cDNA 4933433D23 gene, expressed sequence AW108044, solute carrier family 25 (mitochondrial carrier, brain) member 14, solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 10, solute carrier family 25 (mitochondrial carrier; ornithine transporter), member
					15, uncoupling protein 2 (mitochondrial, proton carrier),
1731	3776	NM_019354	a,u		uncoupling protein 2, mitochondrial RIKEN cDNA 0910001023 gene, eukaryotic translation initiation factor 2, subunit 1 (alpha, 35kD), eukaryotic
				·	EGL nine (C.elegans) homolog 1, EGL nine (C.elegans) homolog 2, EGL nine (C.elegans) homolog 3, EGL nine homolog 3 (C. elegans), ESTs, Moderately similar to A53770 growth factor-responsive protein, vascular smooth muscle - rat [R.norvegicus], ESTs, Weakly similar to A53770 growth factor-responsive protein, vascular smooth muscle - rat [R.norvegicus], SCAN domain-
1733	1324	NM_019371	w	tyrosine 3- monooxgenase/tryptophan 5-monooxgenase activation protein, beta polypeptide, tyrosine 3- monooxygenase/tryptopha n 5-monooxygenase activation protein, beta	containing 2
1734	19577 24626	NM_019377	8	polypeptide testis enhanced gene transcript, testis enhanced gene transcript (BAX inhibitor 1)	CGI-119 protein, RIKEN cDNA 5031406P05 gene, testis enhanced gene transcript (BAX inhibitor 1)
1736		NM_019622			ESTs, Highly similar to T42716 ankyrin 3, splice form 4 - mouse [M.musculus] ESTs, Moderately similar to A55575 ankyrin 3, long splice form [H.sapiens] ESTs, Weakly similar to T42716 ankyrin 3, splice form 4 - mouse [M.musculus], RIKEN cDNA 2310026G15 gene, RIKEN cDNA 4833425P12 gene, RIKEN cDNA 4930400E23 gene, RIKEN cDNA C430011H06 gene, ankyrin 3, node of Ranvler (ankyrin G), hypothetical protein FLJ20189, phospholipase A2, group VI, phospholipase A2, group VI, phospholipase A2, group VI (cytosolic, calcium-independent), proteasome (prosome, macropain) 26S subunit, non-ATPase, 10

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Seq. (D).	() (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Coperis Acel: Rel-Seg. (D.No.)	Model Codes	Monologous Cono Naix	Konologous Greter Namo
		INC. ASSESSMENT OF THE PROPERTY OF THE PROPERT			EST, Weakly similar to CPF1 RAT CYTOCHROME P450 4F1 [R.norvegicus], ESTs, Weakly similar to S45702 leukotriene-B4 20-monooxygenase [H.sapiens], Mus musculus, Similar to RIKEN cDNA 1810054N16 gene, clone MGC:7384 IMAGE:3487830, mRNA, complete cds, RIKEN cDNA 2310021J05 gene, cytochrome P450 isoform 4F12, cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IVF, polypeptide 11, cytochrome P450, subfamily IVF,
1737	20716	NM 019623	c		polypeptide 2, cytochrome P450, subfamily IVF, polypeptide 8, expressed sequence AI787289
1738	20709	NM_019904	×	lectin, galactose binding, soluble 1, lectin, galactoside-binding, soluble, 1 (galectin 1)	EST, Moderately similar to 1713410A beta galactoside soluble lectin [H.sapiens], EST, Moderately similar to GALECTIN-1 [R.norvegicus], Human HL14 gene encoding beta-galactoside-binding lectin, 3' end, clone 2, RIKEN cDNA 2200008F12 gene, Rattus norvegicus mRNA for galectin-2 related protein, complete cds, lectin, galactoside-binding, soluble 1, lectin, galactoside-binding, soluble 1, lectin, galactoside-binding, soluble, 1 (galectin 1), lectin, galactoside-binding soluble, 2 (galectin 2)
			·	hydroxyacid oxidase	HYDROXY-ACID OXIDASE, PEROXISOMAL [R.norvegicus], ESTS Highly similar to LUHU36 annexin II [H.sapiens], RIKEN cDNA 1110003P15 gene, RIKEN cDNA 8430311C09 gene, annexin A2, annexin A2 pseudogene 2, caspase recruitment domain family, member 6, expressed sequence AW215814, hydroxyacid oxidase (glycolate oxidase) 3, hydroxyacid oxidase 1, liver, hydroxyacid oxidase 2 (long
1739	574	NM_019905	u,General	(glycolate oxidase) 3, hydroxyacid oxidase 3 (medium-chain)	chain), nucleolar protein 3 (apoptosis repressor with CARD domain)
1740	9096	NM_019908	i	hypothetical protein similar to mouse aldehyde reductase 6 (renal), renal- specific oxido-reducatse	and the said harmon and the
1741	20457	NM_020073	i,General		parathyroid hormone receptor, parathyroid hormone receptor 1 parathyroid hormone receptor,
1741	20458	NM_020073	General		parathyroid hormone receptor 1
1741	20460	NM_020073	General		parathyroid hormone receptor, parathyroid hormone receptor 1 DNA segment, Chr 12, ERATO Doi
1742	18713	NM_020075	r	eukaryotic translation initiation factor 5	549, expressed, KIAA1856 protein, eukaryotic translation initiation factor 5 DNA segment, Chr 12, ERATO Doi
1742	18715	NM_020075	ξ	eukaryotic translation initiation factor 5	549, expressed, KIAA1856 protein, eukaryotic translation initiation factor ! 3-hydroxyanthranilate 3,4- dioxygenase, RIKEN cDNA
1743	20493	NM_020076	p		0610007K21 gene, RIKEN cDNA 0610012J07 gene
70	150400	1.1111_020010	IP _	<u> </u>	1

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		<u>Komorogni yk</u>	SKOTATOK	Also reserve to the first server	Atty: Dodrot No. 44921-5039W0 Dos. No. 1793997.1
Seq. (D Vos	G (L\$) Northfor	ConBark Acel Rol. SoqiD No.	Model Gode	Momologous Gene 🦘 : Name ::	Homologous Cluster Name
3000					angiotensin I converting enzyme
					(peptidyl-dipeptidase A) 2, kidney-
1744	16375	NM_020976	g		specific membrane protein
					EST, Highly similar to THYMOSIN BETA-10 [R.norvegicus], ESTs, Highly
		-8-			similar to TYB4 MOUSE THYMOSIN
					BETA-4 [M.musculus], expressed
					sequence AW544206, thymosin, beta
1745	20816	NM_021261	k,General		10, thymosin, beta 4, X chromosome
					EST, Weakly similar to 60S RIBOSOMAL PROTEIN L35A
				(	[R.norvegicus], EST, Weakly similar to
					R35A MOUSE 60S RIBOSOMAL
					PROTEIN L35A [M.musculus], EST,
					Weakly similar to R5HU35 ribosomal
	1				protein L35a [H.sapiens], Homo sapiens cDNA FLJ11509 fis, clone
					HEMBA1002166, RIKEN cDNA
					2810431L15 gene, ribosomal protein
			·		L35a, uncharacterized hypothalamus
1746	15335	NM_021264	a	ribosomal protein L35a	protein HSMNP1
4-4-	40700	ANA 004578	la	transforming growth factor, beta 1	transforming growth factor, beta 1
1747	18729	NM_021578	k,z	Dera I	EST, Weakly similar to TGFB_HUMAN
					LATENT TRANSFORMING GROWTH
					FACTOR BETA BINDING PROTEIN 1
					PRECURSOR [H.sapiens], ESTs,
					Weakly similar to TGFB RAT LATENT TRANSFORMING GROWTH FACTOR
					BETA BINDING PROTEIN 1
					PRECURSOR [R.norvegicus], RIKEN
	·		•		cDNA 2310046A13 gene, hypothetical
					protein MGC13010, latent transforming
				latent transforming growth	growth factor beta binding protein 1, latent transforming growth factor beta
			1	factor beta binding protein	binding protein 2, latent transforming
1748	19060	NM 021587	cc	1	growth factor beta binding protein 3
1749	17324	NM_021593	o,General		
					ESTs, Moderately similar to TYPE I
l	ł	1	1	deiodinase, iodothyronine,	IODOTHYRONINE DEIODINASE  [R.norvegicus], delodinase,
1750	19679	NM_021653	General	type I	lodothyronine, type I
···•	1.00.0				ESTs, Moderately similar to TYPE I
<b>!</b>					IODOTHYRONINE DEIODINASE
	40070	NN 024650		deiodinase, iodothyronine,	[R.norvegicus], deiodinase,
1750	19678	NM_021653	a,v,General	type I	iodothyronine, type I potassium channel, subfamily K,
					member 1 (TWIK-1), potassium
ŀ					channel, subfamily K, member 3
			l		(TASK-1), potassium channel,
					subfamily K, member 6 (TWIK-2),
1751	19665	NM 021688	u.General		potassium channel, subfamily K, member 7
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TABLES	F. G. G. K. K. K. K. K. K. K. K. K. K. K. K. K.	<u>KONOFOGNEVY</u>		1、 學學 1. 14	Auy, Docket No. 44921-5030W0
Seq.ID No. 4	ldonillor	CorDenk Ace./: Rol Son Who	Model Gode	Homologous Como Namo	Honologovs Charle Name
					EST, Highly similar to GUANINE NUCLEOTIDE RELEASING PROTEIN [R.norvegicus], EST, Weakly similar to 2009427A guanine nucleotide-
					releasing protein [H.sapiens], ESTs, Highly similar to 2009427A guanine nucleotide-releasing protein
:				·	[H.sapiens], ESTs, Weakly similar to S28407 guanine nucleotide-exchange activator CDC25 homolog - mouse [M.musculus], RAS protein-specific
			9		guanine nucleotide-releasing factor 1, RAS protein-specific guanine nucleotide-releasing factor 2, RIKEN
					cDNA 4921528G01 gene, Rap1 guanine-nucleotide-exchange factor directly activated by cAMP, Rattus
					nòrvegicus strain Wistar RAS guanine nucleotide-releasing factor 1 (Rasgrf1) mRNA, partial cds, guanine nucleotide- releasing factor 2 (specific for crk proto
1752	19667	NM_021690	m		oncogene)
			,	and the second s	ESTs, Highly similar to THYA_HUMAN PROTHYMOSIN ALPHA [H.sapiens], RIKEN cDNA 2610009E16 gene,
				prothymosin alpha, prothymosin, alpha (gene	prothymosin a14, prothymosin alpha, prothymosin, alpha (gene sequence
1754	22916	NM_021740	a	sequence 28)	28)
					CD14 antigen, ESTs, Weakly similar to CD14 RAT MONOCYTE DIFFERENTIATION ANTIGEN CD14
1755	19710	NM_021744	lt		PRECURSOR [R.norvegicus]
					CD14 antigen, ESTs, Weakly similar to CD14 RAT MONOCYTE
1755	19711	NM 021744	l <sub>t</sub>		DIFFERENTIATION ANTIGEN CD14 PRECURSOR [R.norvegicus]
		·			EST, Weakly similar to 138975 nuclear
					orphan receptor LXR-alpha [H.saplens], ESTs, Moderately similar to JC4014 steroid hormone-nuclear
		• .			receptor NER [H.sapiens], expressed sequence AI957360, nuclear receptor subfamily 1, group H, member 3,
					nuclear receptor subfamily 1, group H,
1756 1757	19712 1962	NM_021745 NM_021750	jr lik v z	<u> </u>	member 4
	1302	1914 021730	j,k,y,z		Homo sapiens, clone MGC:18185 IMAGE:4155381, mRNA, complete
					cds, KIAA0251 hypothetical protein, RIKEN cDNA 1110027M19 gene, cysteine sulfinic acid decarboxylase-
475-	40004	hn. 024752	L		related protein 2, glutamic acid decarboxylase 2
1757 1758	19824 25198	NM_021750 NM_021754	a,bb h		decarboxyrase z
					DKFZP566J153 protein, ESTs,
					Moderately similar to T17299 hypothetical protein DKFZp564H2171.1 [H.sapiens],
1758	20035	NM_021754	b,n,s,v,General		nucleolar protein NOP5/NOP58

Seq. IID Ref. Seq. IID Ro. Ref	TABLE 8	e, Kiriwani	koworogá sv	NOTATIONS .	1. W.C. 11 . W.	Ajiy, Docket No. 44921-5000VO
EST, Weakly similar to LISI MOL PLATELET-ACTIVATING SET BALPHA SUBUNIT Ronvegious, 15% Weakly similar to LISI MOUSE PLATELET-ACTIVATING RONVEGIOUS, 15% Weakly similar to LISI MOUSE PLATELET-ACTIVATING RONVEGIOUS, 15% Weakly similar to LISI MOUSE PLATELET-ACTIVATING RONVEGIOUS, 15% Weakly similar to LISI MOUSE PLATELET-ACTIVATING RONVEGIOUS, 15% Weakly similar to LISI MOUSE PLATELET-ACTIVATING RONVEGIOUS, 20% Popead domoin sapiens mRNA for FLJ00083 pro partial cds, 5% Or Popead domoin sapiens mRNA for FLJ00083 pro partial cds, 5% Or Popead domoin sapiens mRNA for FLJ00083 pro partial cds, 5% Or Popead domoin sapiens mRNA for FLJ00083 pro partial cds, 5% Or Popead domoin sapiens mRNA for Plate protein regulator 1 (PRL1 homolog) regulator 1, PRL1 homolog) (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog) (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog) (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog) (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog) (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog) (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog) (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog) (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog) (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog) (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog) (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog (Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog (Arabidopsis homolog), pleiotropic regulator 1, PRL1		7	Conson's Acc./	mariana.	Komologovs Cono	St. 2 (St. 2)
SUBUNIT (R.norvegicus), Homo sapiens mRNA for 120083 pro partial cds, WD repeat domain 5, and WD-40 domain protein 2, hypothetical protein, platelis-activating homolog), pleiotropic regulator 1 (PRL1, Arabidopsis homolog), pleiotropic regulator 1 (PRL1, homolog homolog), pleiotropic regulator 1 (PRL1 homolog homolog), pleiotropic regulator 1, PRL1 homolog homology, pleiotropic regulator 1, PRL1 homolog homology, pleiotropic regulator 1, PRL1 homolog homology, pleiotropic regulator 1, PRL1 homolog homology, pleiotropic regulator 1, PRL1 homolog homology, pleiotropic regulator 1, PRL1 homolog homology, pleiotropic regulator 1, PRL2 homolog homology, pleiotropic regulator 1, PRL2 homolog homology, pleiotropic regulator 1, PRL2 homolog homology, pleiotropic regulator 1, PRL2 homology, pleiotropic re	ne Ay	्टिन्स स्पाना	rer zeckinino	Wooolicooowa	DETROPOSE AND VIEW OF A	EST, Weakly similar to LIS1 MOUSE PLATELET-ACTIVATING FACTOR ACETYLHYDROLASE IB ALPHA SUBUNIT [R.norvegicus], ESTs, Weakly similar to LIS1 MOUSE PLATELET-ACTIVATING FACTOR
pielotropic regulator 1 (PRL1, Arabidopsis) homology, pleiotropic regulator 1, PRL1 homology acetylhydrolase, isoform 1b, alphi subunit (45KD), recombination pr REC14  ESTs, Weakly similar to COPP R COATOMER BETA' SUBUNIT (R. norvegicus), Mus musculus, S to RIKEN CDM SETA' SUBUNIT (R. norvegicus), Mus musculus, S to RIKEN CDM SETA' SUBUNIT (R. norvegicus), Mus musculus, S to RIKEN CDM SETA' SUBUNIT (R. norvegicus), Mus musculus, S to RIKEN CDM SETA' SUBUNIT (R. norvegicus), Mus musculus, S to RIKEN CDM SETA' SUBUNIT (R. norvegicus), Mus musculus, S to RIKEN CDM SETA' SUBUNIT (R. norvegicus), Mus musculus, S to RIKEN CDM SETA' SUBUNIT (R. norvegicus), Mus musculus, S to RIKEN CDM SETA' SUBUNIT (R. norvegicus), Mus musculus, S to RIKEN CDM SETA' SUBUNIT (R. norvegicus), Mus musculus, S to RIKEN CDM SETA' SUBUNIT (R. norvegicus), Mus musculus, S to RIKEN CDM SETA' SUBUNIT (R. norvegicus), Rusp expressed sequence A408785, expressed sequence A40	•			·		SUBUNIT [R.norvegicus], Homo sapiens mRNA for FLJ00083 protein, partial cds, WD repeat domain 5, f-box and WD-40 domain protein 2, hypothetical protein, platelet-activating factor acetylhydrolase beta subunit
ESTS, Weakly similar to COPP R COATOMER BETA SUBUNIT [R.norvegicus], Mus musculus, S to RIKEN cDNA 150004 11/16 get clone MGC:12066 IMAGE:37081 mRNA, complete cds, RIKEN cDD 2510040007 gene, coatomer pro complex, subunit beta 2 (beta pri expressed sequence A408785, expressed sequence A71826332, expressed sequence A71826332, expressed sequence C77982, glutamate rich WD repeat proteir GRWD, platelet-activating factor acetylhydrolase, isoform 1b, beta subunit  Jun-B oncogene, jun B proto- oncogene  DKF2P586N1922 protein, ESTs, Moderately similar to S22895 res [H.sapiens], ESTs, Weakly simila T42734 cytoplasmic linker proteir CLIP-115 - rat [R.norvegicus], RI cDNA 1500005P14 gene, RIKEh cDNA 4631429H07 gene, RIKEh cDNA 4631429H07 gene, RIKEh cDNA 4631429H07 gene, cytopl linker 2, hypothetical protein FLJ20364, restin (Reed-Steinber expressed intermediate filament- associated protein), restin (Reed Steinber getl-expressed intermediate filament- associated protein) EST, Moderately similar to PLM PHOSPHOLEMMAN PRECURS [R.norvegicus], EST, Weakly simil PLM. HUMAN PHOSPHOLEMM PRECURSOR [H.sapiens], FXYI domain-containing ion transport regulator 1, FXYD domain-contain ton transport regulator 1 (phospholemman), FXYD domain-contain regulator 4, FXYD domain-contain regulator 4, FXYD domain-contain regulator 4, FXYD domain-contain regulator 4, FXYD domain-contain	. 1759	20090	NM 021757	m	(PRL1, Arabidopsis homolog), pleiotropic regulator 1, PRL1 homolog	factor acetylhydrolase, isoform 1b, beta1 subunit, platelet-activating factor acetylhydrolase, isoform lb, alpha subunit (45kD), recombination protein
expressed sequence AA408785, expressed sequence A125832, expressed sequence A125832, expressed sequence A125832, expressed sequence C77982, glutamate rich WD repeat protein GRWD, platelet-activating factor acetylhydrolase, isoform 1b, beta subunit  1760 17885 NM 021765 aa Jun-B oncogene, jun B proto-oncogene  1762 20161 NM 021836 cc,General DKFZP586N1922 protein, ESTS, Moderately similar to S22695 res [H.sapiens], ESTs, Weakly similar to S22695 res [H.sapiens], ESTs, Weakly similar to S22695 res [H.sapiens], ESTs, Weakly similar to CLIP-115 - rat [R.norvegicus], RICNA 1500005P14 gene, RIKEN CDNA 4631429H07 gene, RIKEN CDNA 4631429H07 gene, RIKEN CDNA 4631429H07 gene, RIKEN CDNA 5830409B12 gene, cytopic linker 2, hypothetical protein FI_J20364, restin (Reed-Steinber espressed intermediate filament-associated protein), restin (Reed Steinber espressed intermediate filament-associated protein)  1764 1203 NM_021997 k.z cytoplasmic linker 2 EST, Moderately similar to PLM PHOSPHOLEMMAN PRECURS [R.norvegicus], EST, Weakly sim PLM_HUMAN PHOSPHOLEMM PRECURSOR [H.sapiens], FXYI domain-containing ion transport regulator 1, FXYO domain-containing ion transport regulator 1, FXYO domain-containing ion transport regulator 1, FXYO domain-containing ion transport regulator 4, FXYO domain-containing ion transport regulator 4, FXYO domain-containing ion transport regulator 4, FXYO domain-containing ion transport regulator 5, FXYD domain-containing ion transport regulator 5, FXYO domain-containing ion transport regulator 5, FXYO domain-containing ion transport regulator 5, FXYO domain-containing ion transport regulator 6, FXYO domain-containing ion transport regulator 6, FXYO domain-containing ion transport regulator 6, FXYO domain-containing ion transport regulator 6, FXYO domain-containing ion transport regulator 1, FXYO domain-containing ion transport regulator 6, FXYO domain-containing ion transport regulator 6, FXYO domain-containing ion transport regulator 6, FXYO domain-containing ion transport regulator 6, FXYO domain-conta	,	20030				ESTs, Weakly similar to COPP RAT COATOMER BETA' SUBUNIT [R.norvegicus], Mus musculus, Similar to RIKEN cDNA 1500041N16 gene, clone MGC:12066 IMAGE:3708188, mRNA, complete cds, RIKEN cDNA 2510040D07 gene, coatomer protein complex, subunit beta 2 (beta prime),
Jun-B oncogene, jun B proto- oncogene  DKFZP586N1922 protein, ESTs, Moderately similar to S22695 res [H.sapiens], ESTs, Weakly similar T42734 cytoplasmic linker protein CLIP-115 - rat [R.norvegicus], Ri cDNA 1500005P14 gene, RiKEN cDNA 4631429H07 gene, RiKEN cDNA 4631429H07 gene, RiKEN cDNA 5830409B12 gene, cytople linker 2, hypothetical protein FLJ20364, restin (Reed-Steinber espressed intermediate filament- associated protein), restin (Reed- Steinberg cell-expressed intermed Steinberg cell-expressed intermed BEST, Moderately similar to PLM PHOSPHOLEMMAN PRECURS [R.norvegicus], EST, Weakly sim PLM_HUMAN PHOSPHOLEMM PRECURSOR [H.sapiens], FXYI domain-containing ion transport regulator 1, FXYD domain-contai ion transport regulator 1 (phospholemman), FXYD domain containing ion transport regulator FXYD domain-containing ion transport regulator regulator 4, FXYD domain-containing ion transport regulator 4, FXYD domain-containing ion transport regulator 4, FXYD domain-containing ion transport regulator 4, FXYD domain-containing ion transport regulator 4, FXYD domain-containing ion transport regulator 5, FXYD domain-containing ion transport regulator 4, FXYD domain-containing ion transport regulator 5, FXYD domain-containing ion transport regulator 5, FXYD domain-containing ion transport regulator 5, FXYD domain-containing ion transport regulator 6, FXYD domain-containing ion transport regulator 7, FXYD domain-containing ion transport regulator 7, FXYD domain-containing ion transport regulator 7, FXYD domain-containing ion transport regulator 7, FXYD domain-containing ion transport regulator 7, FXYD domain-containing ion transport regulator 7, FXYD domain-containing ion transport regulator 7, FXYD domain-containing ion transport regulator 7, FXYD domain-containing ion transport regulator 7, FXYD domain-containing ion transport regulator 7, FXYD domain-containing ion transport regulator 7, FXYD domain-containing ion transport regulator 7, FXYD domain-containing ion transport regulator 8, FXYD domain-containing ion tra	1760	17885	NM 021765	aa	×	expressed sequence AA408785, expressed sequence AI256832, expressed sequence C77982, glutamate rich WD repeat protein GRWD, platelet-activating factor acetylhydrolase, isoform 1b, beta1
DKFZP586N1922 protein, ESTs, Moderately similar to S22695 res [H.sapiens], ESTs, Weakly similar to S22695 res [H.sapiens], ESTs, Weakly similar T42734 cytoplasmic linker protein CLIP-115 - rat [R.norvegicus], RI cDNA 1500005P14 gene, RIKEN cDNA 4631429H07 gene, RIKEN cDNA 4631429H07 gene, RIKEN cDNA 5830409B12 gene, cytoplasmic linker 2, hypothetical protein FLJ20364, restin (Reed-Steinber espressed intermediate filament-associated protein), restin (Reed Steinberg cell-expressed intermediate filament-associated protein)  1764 1203 NM_021997 k,z cytoplasmic linker 2 filament-associated protein)  EST, Moderately similar to PLM PHOSPHOLEMMAN PRECURS [R.norvegicus], EST, Weakly sim PLM_HUMAN PHOSPHOLEMM PRECURSOR [H.sapiens], FXYI domain-containing ion transport regulator 1 (phospholemman), FXYD domain-containing ion transport regulator 1 (phospholemman), FXYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 4 FXYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 5 KYD domain-containing ion transport regulator 6 KYD domain-containing ion transport regulator 7 KYD domain-containing ion transport regulator 8 KYD domain-containing ion transport regulator 9 KYD domain-containing ion transport regulator 9 KYD domain-containing ion transport regulator 9 KYD domain-containing ion transport regulator 9 KYD domain-containing ion tr				cc.General		
EST, Moderately similar to PLM PHOSPHOLEMMAN PRECURS [R.norvegicus], EST, Weakly sim PLM_HUMAN PHOSPHOLEMM PRECURSOR [H.sapiens], FXYI domain-containing ion transport regulator 1, FXYD domain-conta ion transport regulator 1 (phospholemman), FXYD domai containing ion transport regulato FXYD domain-containing ion transport regulato regulator 4, FXYD domain-containing ion transport regulator					cytoplasmic linker 2	FLJ20364, restin (Reed-Steinberg cell- espressed intermediate filament- associated protein), restin (Reed- Steinberg cell-expressed intermediate filament-associated protein)
ion transport regulator 6, FXYD domain-containing ion transport FXYD domain-containing regulator 7, hypothetical protein	1704					EST, Moderately similar to PLM RAT PHOSPHOLEMMAN PRECURSOR [R.norvegicus], EST, Weakly similar to PLM_HUMAN PHOSPHOLEMMAN PRECURSOR [H.sapiens], FXYD domain-containing ion transport regulator 1, FXYD domain-containing ion transport regulator 1 (phospholemman), FXYD domain-containing ion transport regulator 3, FXYD domain-containing ion transport regulator 4, FXYD domain-containing ion transport regulator 6, FXYD

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Scop. 110 No. : i i :	lderillier	ConBank Acc./ Rol. Seq./ID No	Medal Goda	Honologous Cane; :: Nama :: : : : : : : : : : : : : : : : : :	Homologova Övatev Nama
					EST, Moderately similar to HXK3_HUMAN HEXOKINASE TYPE III [H.sapiens], EST, Weakly similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], ESTs, Moderately similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], ESTs, Weakly similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], hexokinase 2,
1767	17101	NM_022179	bb		hexokinase 3 (white cell) EST, Moderately similar to
					HXK3_HUMAN HEXOKINASE TYPE III [H.sapiens], EST, Weakly similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], ESTs, Moderately similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], ESTs, Weakly similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], hexokinase 2,
1767	17100	NM_022179	bb		hexokinase 3 (white cell)
1768	20257	NM_022180	w,General		expressed sequence AA986699, hepatic nuclear factor 4, hepatocyte nuclear factor 4, alpha
1768	25699	NM_022180	i		expressed sequence AA986699, hepatic nuclear factor 4, hepatocyte nuclear factor 4, alpha
1768	10860	NM_022180	р		ESTs. Moderately similar to A40493
1769	23780	NM 022183	k,x	topoisomerase (DNA) II alpha, topoisomerase (DNA) II alpha (170kD)	DNA topoisomerase [H.sapiens], ESTs, Moderately similar to TP2A MOUSE DNA TOPOISOMERASE II, ALPHA [M.musculus], topoisomerase (DNA) II alpha, topoisomerase (DNA) II beta, topoisomerase (DNA) II beta (180kD)
					expressed sequence AI790318, expressed sequence AI836570, phosphotriesterase related
1770	20312	NM_022224	0		WNT1 inducible signaling pathway protein 1, WNT1 inducible signaling pathway protein 2, WNT1 inducible signaling pathway protein 3,
1771	6585	NM_022266	d,p,cc		connective tissue growth factor ESTs, Highly similar to A23035 tubulin alpha chain [H.sapiens], tubulin alpha 1, tubulin alpha 2, tubulin alpha 3, tubulin alpha 6, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha,
1772	17161	NM_022298	i,v,cc,General		ubiquitous
1772	17162	NM_022298	u		ESTs, Highly similar to A23035 tubulin alpha chain [H.sapiens], tubulin alpha 1, tubulin alpha 2, tubulin alpha 3, tubulin alpha 6, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha 3, tubulin, alpha, ubiquitous
1772	17160	NM_022298	u		ESTs, Highly similar to A23035 tubulin alpha chain [H.sapiens], tubulin alpha 1, tubulin alpha 2, tubulin alpha 3, tubulin alpha 6, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha, ubiquitous

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Soq. (D)!	ldentilitér	ConDept Acq.// Ref. Seq. ID No.	Model Code	Homologous Coro	Homologova Cluatar Namo
					ESTs, Highly similar to A23035 tubulin alpha chain [H.sapiens], tubulin alpha 1, tubulin alpha 2, tubulin alpha 3, tubulin alpha 6, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha 3, tubulin, alpha,
1772	17158	NM_022298	9		ubiquitous EST, Moderately similar to E Chain E,
1773	11454	NM 022381	i,aa,General		Human Pcn [H.sapiens], proliferating cell nuclear antigen
					EST, Moderately similar to E Chain E, Human Pcn [H.sapiens], proliferating
1773	11455	NM_022381	I,General		cell nuclear antigen RIKEN cDNA 2610008L04 gene,
1774	13480	NM_022390	s	pituitary tumor-	quinold dihydropteridine reductase
1775	15184	NM 022391	z	transforming 1	EST, Highly similar to ISI1_HUMAN INSULIN-INDUCED PROTEIN 1 [H.sapiens], ESTs, Highly similar to INSULIN-INDUCED GROWTH RESPONSE PROTEIN CL-6 [R.norvegicus], Mus musculus, clone MGC:18904 IMAGE:4240711, mRNA, complete cds, insulin induced gene 1,
1776	22413	NM_022392	<u>h</u>		insulin induced protein 2 EST, Highly similar to ISI1_HUMAN INSULIN-INDUCED PROTEIN 1 [H.sapiens], ESTs, Highly similar to INSULIN-INDUCED GROWTH RESPONSE PROTEIN CL-6 [R.norvegicus], Mus musculus, clone MGC:18904 IMAGE:4240711, mRNA, complete cds, insulin induced gene 1,
1776		NM_022392			insulin induced protein 2 C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 10, C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 6, C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 6, CD72 antigen, Mus musculus Ly-49Q mRNA for NK receptor Ly-49Q, complete cds, Mus musculus, Similar to macrophage galactose N-acetyl-galactosamine
1777	22499	NM_022393	l.		specific lectin, clone MGC:25983 IMAGE:4456238, mRNA, complete cds, RIKEN cDNA 4930572L20 gene, asialoglycoprotein receptor 1, macrophage lectin 2 (calcium dependent) ESTs, Weakly similar to CALRETICULIN PRECURSOR [R.norvegicus], Homo sapiens, Similar to RIKEN cDNA 1700031L01 gene,
1779	24537	NM_022399	e		clone MGC:26577 IMAGE:4822010, mRNA, complete cds, RIKEN cDNA 1700031L01 gene, RIKEN cDNA 6330586120 gene, calreticulin

TABLES	# KANNAKA	KOMOŁOGUEAK	NOTATIONS "		· Ally, Dockel No. 44221-5039WO Doc, No. 179997.1
Sog. (D:	(Comillor	Conenk Acel. Ref. Seq. 10 No.	Model Gode ::	Homologous Cene) Name ::	Komolegove Cherr News
					ESTs, Weakly similar to CALRETICULIN PRECURSOR [R.norvegicus], Homo sapiens, Similar to RIKEN cDNA 1700031L01 gene, clone MGC:26577 IMAGE:4822010, mRNA, complete cds, RIKEN cDNA 1700031L01 gene, RIKEN cDNA
1779	24539	NM_022399	у		6330586120 gene, calreticulin ESTs, Highly similar to 139161 dystonin isoform 2 [H.sapiens], ESTs, Weakly similar to T42725 actin binding protein ACF7, neural isoform 1 - mouse (fragment) [M.musculus], Leman coiled-coil protein, actin- crosslinking protein 7, expressed sequence AA591047, expressed sequence AW554249, plectin 1, intermediate filament binding protein, 500kD, serologically defined colon
1780	1141	NM_022401	o,General		cancer antigen 8 EST, Highly similar to R5HUP0 acidic ribosomal protein P0, cytosolic [H.sapiens], EST, Moderately similar to RLA0 RAT 60S ACIDIC RIBOSOMAL PROTEIN P0 [R.norvegicus], ESTs, Highly similar to R5HUP0 acidic ribosomal protein P0, cytosolic [H.sapiens], ESTs, Highly similar to RLA0 MOUSE 60S ACIDIC RIBOSOMAL PROTEIN P0 [M.musculus], RIKEN cDNA 2610012022 gene, acidic ribosomal phosphoprotein P0, hypothetical protein IMAGE3455200, ribosomal
1781	1069	NM_022402	9		protein, large, P0 ESTS, Highly similar to FRHUL ferritin light chain [H.saplens], ESTs, Moderately similar to FRHUL ferritin light chain [H.saplens], PRO0470 protein, RIKEN cDNA 4933416E14
1782	8211	NM_022500	j,n,s	light polypeptide	gene, ferritin light chain 2, ferritin, light polypeptide ESTS, Highly similar to FRHUL ferritin light chain [H.sapiens], ESTS, Moderately similar to FRHUL ferritin light chain [H.sapiens], PR00470 protein, RIKEN cDNA 4933416E14 gene, ferritin light chain 2, ferritin, light
1782	8212	NM_022500	n,s	light polypeptide  cytochrome c oxidase subunit VIIa polypeptide 3 (liver), cytochrome c	polypeptide EST, Moderately similar to OSHU7L cytochrome-c oxidase [H.saplens], cytochrome c oxidase subunit VIIa polypeptide 2 (liver), cytochrome c oxidase, subunit VIIa 1, cytochrome c
1783	6815 4259	NM_022503	g,w	oxidase, subunit VIIa 3	oxidase, subunit VIIa 3 EST, Moderately similar to T08720 ribosomal protein L36 [H.sapiens], ESTs, Weakly similar to RL36_HUMAN 60S RIBOSOMAL PROTEIN L36 [H.sapiens], RIKEN cDNA 1110038G14 gene, ribosomal protein L36

TABLE S	e (HUMAN)	HOXO <u>rogine</u> VX	: EKONATOK	of the Control of the Section of the	. Aury Docker No. 44221-5059009 Doc. No. 1793397,
Seq. (D) No.	idealler	Cendent Accil Ref. Seq. ID No:	Model Gode 4	Honologove Core! Name ** core!	Honologous Cireler Name
					ESTs, Weakly similar to SMN1_HUMAN SURVIVAL MOTOR NEURON PROTEIN 1 [H.sapiens], RIKEN cDNA 2410004J23 gene, expressed sequence AB49087, expressed sequence AW122398, splicing factor 30, survival of motor
	*				neuron-related, survival motor neuron, survival motor neuron pseudogene, survival of motor neuron 1, telomeric, survival of motor neuron 2,
1785	1611	NM_022509	<u> </u>		centromeric ESTs, Weakly similar to acyl-CoA dehydrogenase [R.norvegicus], RIKEN
					cDNA 1300003O09 gene, RIKEN cDNA 2310016C19 gene, acetyl-Coenzyme A dehydrogenase, short chain, acyl-Coenzyme A dehydrogenase family, member 8, acy Coenzyme A dehydrogenase, C-2 to C3 short chain, hypothetical protein
1786	2236	NM 022512	y, <b>z</b>		FLJ12592, hypothetical protein MGC5601, isovaleryl coenzyme A dehydrogenase
					EST, Weakly similar to 60S RIBOSOMAL PROTEIN L27 [R.norvegicus], EST, Weakly similar to S43505 ribosomal protein L27, cytosolic [H.sapiens], ribosomal
1787	3026	NM_022514	a,q,r,aa		protein L27 EST, Weakly similar to 60S RIBOSOMAL PROTEIN L27 [R.norvegicus], EST, Weakly similar to S43505 ribosomal protein L27, cytosolic [H.sapiens], ribosomal protein L27
4700	2000	NIA 022545			ESTs, Highly similar to RL24_HUMAN 60S RIBOSOMAL PROTEIN L24 (H.sapiens), RIKEN cDNA 0610008L0: Igene, ribosomal protein L24
1788	2696	NM_022515	a,d		ESTs, Highly similar to RL24_HUMAN 60S RIBOSOMAL PROTEIN L24
1788	2697	NM_022515	n,w,aa	neural polypyrimidine tract binding protein,	[H.sapiens], RIKEN cDNA 0610008L0: gene, ribosomal protein L24 ESTs, Moderately similar to S15552 polypyrimidine tract-binding protein 1 -rat [R.norvegicus], ESTs, Weakly similar to S15552 polypyrimidine tract-binding protein 1 - rat [R.norvegicus], RIKEN cDNA 2810036L13 gene, expressed sequence AW107884, heterogeneous nuclear ribonucleoprotein L, neural polypyrimidine tract binding protein,
1789	3900	NM_022516	h	polypyrimidine tract binding protein	polypyrimidine tract binding protein, polypyrimidine tract binding protein 2 ADP-ribosylation factor 1, ADP-ribosylation factor domain protein 1, 64kD, ADP-ribosylation factor-like 1, ARF protein, Homo sapiens, Similar to DKFZP727CO91 protein, clone
1790	4151	NM 022518	0		MGC:10677 IMAGE:3948445, mRNA, complete cds

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	trentiller.	ConBantXAce.	6.50	Maniplegous Gama Maniples are 145 to 517	Homologovis Civeler Name
					ESTs, Highly similar to ORNITHINE AMINOTRANSFERASE PRECURSOR (R.norvegicus), RIKEN cDNA 1300019H02 gene, RIKEN cDNA 2900006B13 gene, hypothetical protein MGC15875, ornithine
1791	4242	NM_022521	c		aminotransferase, omithine aminotransferase (gyrate atrophy) CD151 antigen, Homo sapiens cDNA
					FLJ14609 fis, clone NT2RP1000944, RIKEN cDNA 1110014F12 gene, RIKEN cDNA 1110031P12 gene, RIKEN cDNA 2700063A19 gene, transmembrane 4 superfamily member (tetraspan NET-2), transmembrane 4
1792	4412	NM_022523	0		superfamily member 6
4703	6641	NM 022533	General		ESTs, Weakly similar to A55046 plasmolipin - rat [R.norvegicus], ESTs, Weakly similar to PLLP_HUMAN PLASMOLIPIN [H.sapiens], Homo sapiens cDNA FLJ14787 fis, clone NT2RP4000878, highly similar to MYELOID UPREGULATED PROTEIN, Mus musculus, Similar to BENE protein, clone MGC:19097 IMAGE:4205488, mRNA, complete cds, RIKEN cDNA 2700018N07 gene, expressed sequence Al461653, myelin and lymphocyte protein; T-cell differentiation protein, plasmolipin
1793	0041	NM_022535	General		ESTs, Moderately similar to A Chain A
1794	8097	NM_022536	а		Cyclophilin B Complexed With [H.sapiens], RIKEN cDNA 1110060010 gene, RIKEN cDNA 3732410E19 gene, RIKEN cDNA 4833408F11 gene, expressed sequence AA408962, expressed sequence AA553318, peptidylprolyl isomerase B, peptidylprolyl isomerase B (cyclophilin B)
1795	8597	NM_022538	c,r,u		
1795	8598	NM_022538			EST, Highly similar to IM8B_MOUSE MITOCHONDRIAL IMPORT INNER MEMBRANE TRANSLOCASE SUBUNIT TIM8 B (DEAFNESS DYSTONIA PROTEIN 2 HOMOLOG) [R.norvegicus], translocase of inner mitochondrial membrane 8 (yeast) homolog B, translocase of Inner mitochondrial membrane 8 homolog b
1796	9296	NM_022541	o	· ·	(yeast) ESTs, Weakly similar to A Chain A,
	21063	NM_022585		omithine decarboxylase antizyme inhibitor	Crystal Structure Omithine Decarboxylase From Mouse, Truncated 37 Residues From The C- Terminus, To 1.6 Angstrom Resolution [M.musculus], ESTs, Weakly similar to ORNITHINE DECARBOXYLASE [R.norvegicus], Omitine decarboxylase, ornithine decarboxylase, ornithine decarboxylase antizyme Inhibitor, omithine decarboxylase, structural, ornithine decarboxylase-like protein

		KOWOTOGAE W			Ally, Docket No. 44921-593900 Doc, No. 1799397.
300, ID 1	COMMON	ConBent Acel. Ref. Seq. ID No.	Model (Code)	Honologous Cono Namo	Honologous Cluster Name
					apoptotic protease activating factor, telomerase associated protein 1, telomerase-associated protein 1
1799 1800	20781	NM_022591 NM_022592	in		RIKEN cDNA 4933401119 gene, hypothetical protein DKFZp434L1717 transketolase, transketolase (Wernick Korsakoff syndrome), transketolase- like 1
				enoyl Coenzyme A hydratase 1, peroxisomal, enoyl coenzyme A	AU RNA-binding protein/enoyl- coenzyme A hydratase, EST, Weakly similar to ECH1_HUMAN DELTA3,5- DELTA2,4-DIENOYL-COA ISOMERASE PRECURSO [H.sapiens], RIKEN cDNA 2610009M20 gene, enoyl Coenzyme hydratase 1, peroxisomal, enoyl coenzyme A hydratase 1, peroxisoma
1801	20925	NM_022594	9	hydratase 1, peroxisomal	expressed sequence AA617331 cathepsin B, lipocalin 7,
1802	20944	NM_022597			tubulointerstitial nephritis antigen EST, Highly similar to OM25_RAT MITOCHONDRIAL OUTER MEMBRANE PROTEIN 25 (NPW16) [R.norvegicus], EST, Weakly similar to OM25_RAT MITOCHONDRIAL OUTER MEMBRANE PROTEIN 25 (NPW16) [R.norvegicus], Erbb2 interacting protein, discs, large homolog 4 (Drosophila), expressed sequence Al118201, hypothetical
1803	21024	NM_022599	o,General		protein FLJ11271, synaptojanin 2 binding protein
4004	2250	NIM 022642	Canami		H2B histone family, member D, H2B histone family, member G, H2B histone family, member K, RIKEN cDNA 2610022J01 gene, expressed sequence Al413321, expressed sequence R74621
1804	2250	NM_022643	General		EST, Moderately similar to 40S RIBOSOMAL PROTEIN S14 [R.norvegicus], EST, Weakly similar to A25220 ribosomal protein S14, cytosolic [H.sapiens], EST, Weakly similar to JE0129 ribosomal protein S14 - mouse [M.musculus], ESTs, Highly similar to A25220 ribosomal protein S14, cytosolic [H.sapiens],
1805	17567	NM_022672	a,y	ribosomal protein S14	ribosomal protein S14 EST, Weakly similar to histone H2A.F/Z variant [H.sapiens], ESTs, Highly similar to HISTONE H2A.Z [R.norvegicus], H2A histone family,
1806	17661	NM_022674	bb	H2A histone family, member Z	member Z, RIKEN cDNA C530002L1 gene, histone H2A.F/Z variant
				protein phosphalase 1,	EST, Weakly similar to IPP1_HUMAN PROTEIN PHOSPHATASE INHIBITOR 1 [H.sapiens], ESTs, Weakly similar to IPP1_HUMAN PROTEIN PHOSPHATASE INHIBITOR 1 [H.sapiens], RIKEN cDNA 4930579P15 gene, protein phosphatase 1, regulatory (inhibitor) subunit 1A, protein phosphatase 1, regulatory (inhibitor) subunit 1B
	24563	NM_022676	b	regulatory (inhibitor) subunit 1A	(dopamine and cAMP regulated phosphoprotein, DARPP-32)

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Seq. (D. No.	refillaced	Concentration of the Content of the	Model Code	Homologous Gana Nama	OFFEN TELEVIS EVOSOFOTOM
		·			EST, Weakly similar to IPP1_HUMAN PROTEIN PHOSPHATASE INHIBITOR 1 [H.sapiens], ESTs, Weakly similar to IPP1_HUMAN PROTEIN PHOSPHATASE INHIBITOR 1 [H.sapiens], RIKEN cDNA 4930579P15 gene, protein phosphatase 1, regulatory (inhibitor)
				protein phosphatase 1, regulatory (inhibitor)	subunit 1A, protein phosphatase 1, regulatory (inhibitor) subunit 1B (dopamine and cAMP regulated
1807	24564	NM_022676	b,x	subunit 1A	phosphoprotein, DARPP-32)
1808	20506	NM_022686			, ,
1809	20508	NM_022688	g		EBNA-2 co-activator (100kD), ESTs, Moderately similar to I38968 100 kDa
1810	17586	NM_022694	k		coactivator [H.sapiens]  DNA segment, Chr 7, Wayne State
					University 21, expressed, EST, Highly similar to S55915 ribosomal protein L28 [H.sapiens], ESTs, Highly similar
1811	17730	NM_022697	a		to S55915 ribosomal protein L28 [H.sapiens], ribosomal protein L28
					DNA segment, Chr 7, Wayne State University 21, expressed, EST, Highly similar to S55915 ribosomal protein L28 [H.sapiens], ESTs, Highly similar to S55915 ribosomal protein L28
1811	17729	NM_022697	q		[H.sapiens], ribosomal protein L28
1812	154	NM 022849	t	crp-ductin, deleted in malignant brain tumors 1	CD163 antigen, ESTs, Highly similar to 138005 M130 antigen precursor, splice form 4 [H.saplens], KIAA1822 protein, apoptosis inhibitory 6, crp-ductin, deleted in malignant brain tumors 1, lectin, galactoside-binding, soluble, 3 binding protein, macrophage scavenger receptor 2, peptidylprolyl isomerase C-associated protein
					EST, Weakly similar to KC13 RAT CASEIN KINASE I, GAMMA 3 ISOFORM [R.norvegicus], ESTs, Highly similar to KC13 RAT CASEIN KINASE I, GAMMA 3 ISOFORM [R.norvegicus], ESTs, Weakly similar to casein kinase [M.musculus], RIKEN cDNA 2610208K14 gene, RIKEN cDNA 3300002K07 gene, casein kinase 1, alpha 1, casein kinase 1, delta, casein kinase 1, gamma 1, casein kinase 1, gamma 1, casein kinase 1,
1813	127	NM_022855	h		gamma 3 ESTs, Highly similar to FXD3_HUMAN
					FORKHEAD BOX PROTEIN D3 [H.sapiens], ESTs, Weakly similar to FXD3_HUMAN FORKHEAD BOX PROTEIN D3 [H.sapiens], ESTs, Weakly similar to HFH1 RAT HEPATOCYTE NUCLEAR FACTOR 3 FORKHEAD HOMOLOG 1 [R.norvegicus], HNF-3/forkhead homolog 1 like, expressed sequence A1385632, forkhead box D1, forkhead box D2, forkhead box D3, vinged
1814	152	NM_022858	lj		helix/forkhead transcription factor
1816	18101	NM 022948	z	<del>                                     </del>	
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Sog. [D		ConBank Acel Roll Sec ID No.	Model Gode	Honologous Cono Namò di Telebra	Momelogous Civiler Name
					CAT56 protein, EST, Highly similar to CA13 HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [H.sapiens], EST, Weakly similar to A28996 proline-rich protein M14 precursor - mouse [M.muscutus], EST, Weakly similar to JE0291 FB19 protein [H.sapiens], collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant), procollagen, type III, alpha 1, proline rich protein, proline rich protein 2, protein
1817	21491	NM_022951	w		phosphatase 1, regulatory subunit 10 ESTs, Moderately similar to S57219
					phosphatidylinositol 3-kinase [H.sapiens], FK506 binding protein 12-rapamycin associated protein 1, Homo sapiens cDNA FLJ12591 fis, clone NT2RM4001313, moderately similar to PHOSPHATIDYLINOSITOL 3-KINASE VPS34-LIKE (EC 2.7.1.137), Homo sapiens cDNA FLJ14331 fis, clone PLACE4000320, RIKEN cDNA 2410099E07 gene, phosphatidylinositol 3-kinase catalytic delta polypeptide, phosphoinositide-3-kinase, class 3, rapamycin and FKBP12 target-1
1818	15742	NM_022958	у		protein ELAV (embryonic lethal, abnormal
1819	9286	NM_023027	l,w		vision, Drosophila)-like 4 (Hu antigen D), ESTs, Highly similar to HUD RAT PARANEOPLASTIC ENCEPHALOMYELITIS ANTIGEN HUD HOMOLOG [R.norvegicus], ESTs, Moderately similar to HUD RAT PARANEOPLASTIC ENCEPHALOMYELITIS ANTIGEN HUD HOMOLOG [R.norvegicus], ESTs, Moderately similar to POLYADENYLATE-BINDING PROTEIN 1 [M.musculus], Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933407N23, full insert sequence, RIKEN cDNA 4932702K14 gene, poly A binding protein, cytoplasmic 1
1019	5200	I-JAN VESUE	1,,44		RIKEN cDNA 2610208K14 gene,
1820	23215	NM_023102	z		VRK3 for vaccinia related kinase 3, casein kinase 1, alpha 1, casein kinase 1, delta, casein kinase 1, epsilon, casein kinase 1, gamma 2
1821	21238	NM_024125	cc,General	CCAAT/enhancer binding protein (C/EBP), beta	CCAAT/enhancer binding protein (C/EBP), beta
	21239	;	cc,General	CCAAT/enhancer binding protein (C/EBP), beta	CCAAT/enhancer binding protein (C/EBP), beta
1821	21239	NM_024125	CC, General	growth arrest and DNA- damage-inducible 45 alpha, growth arrest and DNA-damage-inducible,	growth arrest and DNA-damage- inducible 45 alpha, growth arrest and DNA-damage-inducible 45 beta, growth arrest and DNA-damage-
1822	353	NM_024127	i,n,General	alpha	inducible, alpha

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Seq (D. No.	limiller 1	Condenk Aced. Roll Seg. ID No:	Model Gode	Homologous Gons. Namora de Receivationes	Lionologicus Clusici Name . 🌣
				growth arrest and DNA- damage-inducible 45 alpha, growth arrest and DNA-damage-inducible,	growth arrest and DNA-damage- inducible 45 alpha, growth arrest and DNA-damage-inducible 45 beta, growth arrest and DNA-damage-
1822	354	NM_024127	i,n,General	growth arrest and DNA-	growth arrest and DNA-damage-
1822	352	NM_024127	h,General	damage-inducible 45 alpha, growth arrest and DNA-damage-inducible, alpha	inducible 45 alpha, growth arrest and DNA-damage-inducible 45 beta, growth arrest and DNA-damage- inducible, alpha
	1			D-dopachrome tautomerase	D-dopachrome tautomerase, expressed sequence C78655
1823	17227	NM_024131	<u>x</u>	DNA-damage inducible	DNA-damage inducible transcript 3, EST, Moderately similar to GA15_HUMAN GROWTH ARREST AND DNA-DAMAGE-INDUCIBLE
1824	1598	NM 024134	1	transcript 3, DNA-damage- inducible transcript 3	PROTEIN GADD153 [H.sapiens], myozenin
1825	1162	NM_024153	d		ferredoxin reductase
1826	7863	NM_024156	С		ATPase, H+ transporting, lysosomal (vacuolar proton pump) 16kD, ATPase H+ transporting, lysosomal (vacuolar proton pump) 21kD, ESTs, Weakly similar to VACUOLAR ATP SYNTHASE 16 KD PROTEOLIPID SUBUNIT [R.norvegicus], Mus musculus, Similar to ATPase, H+ transporting, lysosomal (vacuolar proton pump) 21kD, clone MGC:6568 IMAGE:2812497, mRNA, complete cds EST, Weakly similar to A29154
1827	22079	NM_024157	X	- Table	complement factor I [H.sapiens], I factor (complement), RIKEN cDNA 1300008A22 gene, complement component factor i, protease, serine, 7 (enterokinase), suppression of tumorigenicity 14 (colon carcinoma), transmembrane protease, serine 2
				fatty acid binding protein 3, muscle and heart, fatty acid binding protein 3, muscle and heart (mammary-derived growth	EST, Moderately similar to FABH MOUSE FATTY ACID-BINDING PROTEIN, HEART [M.musculus], ESTs, Highly similar to PC4011 fatty acid-binding protein - mouse [M.musculus], fatty acid binding protein 3, muscle and heart, fatty acid binding protein 3, muscle and heart (mammary derived growth inhibitor), fatty acid
1828	16476	NM_024162	General	(mammary-derived growth inhibitor)	bending protein 3, pseudogene 2 EST, Moderately similar to A27077 dnaK-type molecular chaperone [H.sapiens], EST, Weakly similar to A27077 dnaK-type molecular chaperone [H.sapiens], EST, Weakly similar to A45935 dnaK-type molecular chaperone hsc70 - mouse [M.musculus], heat shock 70kD protein
1829	17765	NM 024351	b,s,v	heat shock 70kD protein 8	8, hypothetical protein MGC4859

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309. [D	relilited	GinBink Ace./ Rel. Seq. (D No.	Model (650)	Mondogova Gareja Mano wata a wana wa	Homologova Cluater Nama
1830	8879	NM 024360	h		bHLH factor Hes4, basic helix-loop- helix domain containing, class B, 2, basic helix-loop-helix domain containing, class B, 3, hairy (Drosophila)-homolog, hairy and enhancer of split 1, (Drosophila), hairy and enhancer of split 6, (Drosophila), hairy/enhancer-of-split related with YRPW motif 1, hairy/enhancer-of-split related with YRPW motif 2, likely ortholog of mouse Hes6 neuronal differentiation gene
1831	20772	NM 024363	ı,	HMT1 (hnRNP methyltransferase, S. cerevislae)-like 2, heterogeneous nuclear ribonucleoproteins methyltransferase-like 2 (S. cerevislae)	ANM1_HUMAN PROTEIN ARGININE N-METHYLTRANSFERASE 1 [H.sapiens], EST, Weakly similar to ANM1_HUMAN PROTEIN ARGININE N-METHYLTRANSFERASE 1 [H.sapiens], ESTs, Moderately similar to ANM1_MOUSE PROTEIN ARGININE N-METHYLTRANSFERASE 1 [M.musculus], HMT1 (hnRNP methyltransferase, S. cerevisiae)-like 2, HMT1 (hnRNP methyltransferase, S. cerevisiae)-like 3, Homo sapiens cDNA: FLJ23133 fis, clone LNG08566 RIKEN cDNA 2410018A17 gene, coactivator-associated arginine methyltransferase-1, expressed sequence AW214366, heterogeneous nuclear ribonucleoproteins methyltransferase-like 2 (S. cerevisiae), heterogeneous nuclear ribonucleoproteins methyltransferase-like 2 (S. cerevisiae), related sequence, hypothetical protein FLJ10559
					3-hydroxy-3-methylglutaryl-Coenzyme A lyase, 3-hydroxymethyl-3- methylglutaryl-Coenzyme A lyase (hydroxymethylglutaricaciduria), Hom sapiens clone 24959 mRNA sequence
1832	2812	NM_024386	c		partial cds, hypothetical protein RIKEN cDNA 2700048017 gene,
1833	335	NM_024387	j.y		heme oxygenase (decycling) 2
1834	21	NM_024388	сс		nuclear receptor subfamily 4, group A
1834	22	NM 024388	cc		nuclear receptor subfamily 4, group Amember 1

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30g (D): Ko:	i danililar	ConBurk Acell. Roll Seq. ID No.	Model Gode	Monologova Cana Maino 💥 🎉 📜	Conclusion Saving
Cleas Y	<u>reenities.</u>	Tare Seet in Mr.			Homo sapiens cDNA FLJ13261 fis, clone OVARC1000885, weakly similar to OXIDOREDUCTASE UCPA (EC 1), Human DNA sequence from clone 1068E13 on chromosome 20p11.21-12.3. Contains two putative novel genes, the gene for a novel protein similar to bovine SCP2 (Sterol Carrier Protein 2) and part of HSD17B4 (hydroxysteroid (17-beta) dehydrogenase 4), an EEF1A1 (eukaryotic translation elongation factor 1 alpha 1) pseudogene, ESTs, STSs and GSSs, RIKEN cDNA 1110029G07 gene, RIKEN cDNA 110029G07 gene, RIKEN cDNA 1810026B04 gene, RIKEN cDNA 2610207116 gene, expressed sequence AW208803, hydroxysteroid (17-beta) dehydrogenase 4, hydroxysteroid 17-beta
1836	9929	NM_024392	ſ		dehydrogenase 4, hypothetical protein MGC10940, oxidoreductase UCPA, retinal short-chain dehydrogenase/reductase 1
					ATP-binding cassette, sub-family A (ABC1), member 2, ATP-binding cassette, sub-family A (ABC1), member 3, ATP-binding cassette, sub-family A (ABC1), member 4, ATP-
					binding cassette, sub-family A (ABC1), member 7, ATP-binding cassette, sub-family A (ABC1), member 8, ESTs, Weakly similar to ABC2 MOUSE ATP-BINDING CASSETTE TRANSPORTER 2 [M.musculus], Homo sapiens mRNA for KIAA1888 protein, partial cds, hypothetical partial casts in Exercise 1, 144207, but the bidge partial.
1837	3582	NM_024396	aa		protein FLJ14297, hypothetical protein PRO2543 DNA segment, Chr 9, ERATO Doi 85,
					expressed, Homo sapiens aconitase precursor (ACON) mRNA, nuclear gene encoding mitochondrial protein, partial cds, RIKEN cDNA 5031409G22 gene, aconitase 1, aconitase 1, soluble, aconitase 2, mitochondrial, iron-responsive element-binding
1838	19993	NM_024398	e,p,s,aa		protein Homo sapiens, RIKEN cDNA 0610006H10 gene, clone MGC:17267 IMAGE:4155233, mRNA, complete cds, Homo sapiens, Similar to RIKEN
1839	10789	NM_024399	o		CDNA 0610006H10 gene, clone MGC:9740 IMAGE:3853707, mRNA, complete cds, aspartoacylase (aminoacylase 2, Canavan disease)

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Scq, ID; No. 4	verifice)	Cenjeni Acel Ref. Seg ID No.	Model Gode 2	Hemelogous Cano Namo (k	Honologgis Guster Name
					ESTs, Weakly similar to T47158 hypothetical protein DKFZp762C1110.1 [H.sapiens], Mus musculus papilin mRNA, complete cds, Mus musculus, Similar to a disintegrin and metalloproteinase with thrombospondin motifs 1 (ADAMTS-1), clone IMAGE:3491991, mRNA, partial cds, RIKEN cDNA 6720426B09 gene, RIKEN cDNA A930008K15 gene, a
	÷				disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 1, a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 4, a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 8, a disintegrin-like and
1840	22626	NM_024400	cc,General		metalloprotease (reprolysin type) with thrombospondin type 1 motif, 9
					EST, Weakly similar to ATF4_HUMAN CYCLIC-AMP-DEPENDENT TRANSCRIPTION FACTOR ATF-4 [H.sapiens], activating transcription factor 4 (tax-responsive enhancer element B67), activating transcription
1841	13633	NM_024403	g,General		factor 5 EST, Weakly similar to ATF4_HUMAN
4044	42024	NIM 024402	a Connell		CYCLIC-AMP-DEPENDENT TRANSCRIPTION FACTOR ATF-4 [H.sapiens], activating transcription factor 4 (tax-responsive enhancer element B67), activating transcription factor 5
	13634	NM_024403	g,General		ESTs, Moderately similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN C [R. norvegicus], ESTs, Weakly similar to A44192 heterogeneous nuclear nbonucleoprotein C-like protein [H.sapiens], Mus musculus high- glycine/lyrosine protein type I E5 mRNA, complete cds, expressed sequence C85084, heterogeneous nuclear ribonucleoprotein A/B, heterogeneous nuclear ribonucleoprotein D, heterogeneous nuclear ribonucleoprotein D (AU-rich
1842	21038	NM_024404	b,General	aminolevulinate, delta-, synthase 1, aminolevulinic acid synthase 1	element RNA-binding protein 1, 37kD) EST, Weakly similar to SYHUAL 5- aminolevulinate synthase [H.sapiens], ESTs, Moderately similar to 5- AMINOLEVULINIC ACID SYNTHASE MITOCHONDRIAL PRECURSOR, NONSPECIFIC [R.norvegicus], aminolevulinate, delta-, synthase 1, aminolevulinic acid synthase 1, aminolevulinic acid synthase 2, erythroid, serine palmitoyltransferase, long chain base subunit 1, serine palmitoyltransferase, long chain base subunit 2

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Sog ID: No: 4	TO ME STATE	Coreni: Acel. Roles Otto:	Model Gode -	Konologous Com Namo	Homologova Cluater Namo
					GSHG_MOUSE GLUTATHIONE PEROXIDASE-GASTROINTESTINAL (GSHPX-GI) [M.musculus], ESTs, Weakly similar to GSHC RAT GLUTATHIONE PEROXIDASE [R.norvegicus], glutathione peroxidase 1, glutathione peroxidase 2
1845	15111	NM_030826	s e,General	low density lipoprotein receptor-related protein-related protein-related protein-related protein-related protein-	(gastrointestinal) EST, Highly similar to LRP2 RAT LOW- DENSITY LIPOPROTEIN RECEPTOR- RECURSOR [R.norvegicus], EST, Moderately similar to S25111 alpha-2- macroglobulin receptor precursor mouse [M.musculus], ESTs, Highly similar to S02392 alpha-2- macroglobulin receptor precursor [H.sapiens], ESTs, Highly similar to S25111 alpha-2-macroglobulin receptor precursor - mouse [M.musculus], ESTs, Weakly similar to S25111 alpha-2-macroglobulin receptor precursor - mouse [M.musculus], ESTs, Weakly similar to IS3413 calcium sensor protein [H.sapiens], expressed sequence C79313, low density lipoprotein receptor-related protein 1, low density lipoprotein receptor-related protein B (deleted in tumors), low density lipoprotein-related protein
1845	15112	NM_030827	y,z	low density lipoprotein receptor-related protein 2, low density lipoprotein- related protein 2	EST, Highly similar to LRP2 RAT LOW- DENSITY LIPOPROTEIN RECEPTOR- RELATED PROTEIN 2 PRECURSOR [R.norvegicus], EST, Moderately similar to S25111 alpha-2- macroglobulin receptor precursor - mouse [M.musculus], ESTs, Highly similar to S02392 alpha-2- macroglobulin receptor precursor [H.sapiens], ESTs, Highly similar to S25111 alpha-2-macroglobulin receptor precursor - mouse [M.musculus], ESTs, Weakly similar to IS3111 alpha-2-macroglobulin receptor precursor - mouse [M.sapiens], expressed sequence C79313, low density lipoprotein receptor-related protein 1, low density lipoprotein receptor-related protein IB (deleted in tumors), low density lipoprotein-related protein

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ings :	eren men			low density lipoprotein receptor-related protein 2,	EST, Highly similar to LRP2 RAT LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 2 PRECURSOR [R.norvegicus], EST, Moderately similar to S25111 alpha-2-macroglobulin receptor precursor-mouse [M.musculus], ESTs, Highly similar to S02392 alpha-2-macroglobulin receptor precursor [H.sapiens], ESTs, Highly similar to S25111 alpha-2-macroglobulin receptor precursor - mouse [M.musculus], ESTs, Weakly similar to I53413 calcium sensor protein [H.sapiens], expressed sequence C79313, low density lipoprotein receptor-related protein 2, low density lipoprotein receptor-related protein 2, low density lipoprotein-related protein 2, low density lipoprotein-related protein 1, low density lipoprotein-related protein 2, low density lipoprotein-related protein
				low density lipoprotein-	1B (deleted in tumors), low density
1845	15110	NM_030827	General	related protein 2	lipoprotein-related protein 2 solute carrier family 21 (organic anion transporter), member 1, solute carrier family 21 (organic anion transporter), member 10, solute carrier family 21 (organic anion transporter), member 14, solute carrier family 21 (organic anion transporter), member 3, solute carrier family 21 (organic anion transporter), member 3, solute carrier family 21 (organic anion
1846	808	NM 030837	k,m		transporter), member 6
					ESTs, Weakly similar to 165309 autoantigen p69 - rat [R.norvegicus], Homo sapiens ALS2CR15 mRNA, partial cds, RIKEN cDNA 1700030B17 gene, islet cell autoantigen 1 (69kD),
1847	4057	NM_030844	k	<u> </u>	islet cell autoantigen 1, 69 kDa
		·			GRO1 oncogene, GRO2 oncogene, Rattus norvegicus CXC chemokine RTCK1 (Rtck1) mRNA, complete cds, interleukin 8, platelet factor 4, pro- platelet basic protein, pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide III,
1848	1221	NM 030845	lt		neutrophil-activating peptide-2)
					ESTs, Weakly similar to PERIPHERAL MYELIN PROTEIN 22 [R.norvegicus], Peripheral myelin protein, epithelial membrane protein 3, peripheral myelin protein 22, peripheral myelin protein,
1849	21509	NM_030847	x		22 kDa EST, Highly similar to PDK2 RAT
1850	1928	NM_030872	v	pyruvate dehydrogenase 2, pyruvate dehydrogenase kinase, isoenzyme 2	[R.norvegicus], expressed sequence Al035637, pyruvate dehydrogenase 2, pyruvate dehydrogenase kinase, isoenzyme 2 EST, Weakly similar to A Chain A, Human Platelet Profilin Complexed
1851	17342	NM_030873	u .		With The L-Pro10 Peptide (SUB 3-140 [H.sapiens], ESTs, Weakly similar to profilin [R.norvegicus], RIKEN cDNA 1700012P12 gene, profilin, profilin 1, profilin 2

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TABLES		<u>Koworogne vy</u>	NOTATIONS		Ally. Doctor No. 44921-5939WC Doc. No. 1793897.1
Sog. (D Ko. 1111	) (1011)(161)	Condent Aced Rel Seq. ID No.	Model Code	Cores evogolomoki Wares - Cores	Homologovs Charr Name
					G protein-coupled receptor 15, G- protein coupled receptor SALPR; somatostatin and angiotensin-like peptide receptor, angiotensin receptor
1852	24648	NM_030985	u		1, expressed sequence Al551199
1852	25453	NM_030985	General		
		*	•	• . • .	ESTs, Weakly similar to GBB1 RAT GUANINE NUCLEOTIDE-BINDING PROTEIN G(I)/G(S)/G(T) BETA SUBUNIT 1 [R.norvegicus], Mus musculus, clone MGC:7934 IMAGE:3583848, mRNA, complete cds, RIKEN cDNA 5930415H02 gene, constitutive photomorphogenic protein 1 (Arabidopsis), guanine nucleotide binding protein (G protein), beta polypeptide 1, guanine nucleotide binding protein beta subunit 4, guanine nucleotide binding protein, beta 1, guanine nucleotide binding protein, beta 1, guanine nucleotide binding protein, beta 4, similar to constitutive
1853	21802	NM_030987	h		beta 4, similar to constitutive photomorphogenic protein 1 (Arabidopsis)
					EST, Weakly similar to ALCOHOL DEHYDROGENASE [R. norvegicus], RIKEN cDNA 2310005E10 gene, aldoketo reductase family 1, member A1 (aldehyde reductase), aldo-keto reductase family 1, member A4 (aldehyde reductase), aldo-keto
1854	23109	NM_031000	f,s,z	ļ	reductase family 1, member E1 4-aminobutyrate aminotransferase,
4055	124	NIL 024002			RIKEN cDNA 1300019H02 gene, RIKEN cDNA 290006B13 gene, omithine aminotransferase
1855 1856	134 25461	NM_031003 NM_031009	a,u o		Official and Control and Control
1857	1845	NM 031010			ARACHIDONATE 12- LIPOXYGENASE [R.norvegicus], arachidonate 12-lipoxygenase, arachidonate 12-lipoxygenase pseudogene 2, arachidonate 15- lipoxygenase, expressed sequence AW259591
					ARACHIDONATE 12- LIPOXYGENASE [R.norvegicus], arachidonate 12-lipoxygenase, arachidonate 12-lipoxygenase pseudogene 2, arachidonate 15- lipoxygenase, expressed sequence
1857	25517	NM_031010	c,t		AW259591 ESTs, Weakly similar to MK14 RAT MITOGENACTIVATED PROTEIN KINASE 14 [R.norvegicus], mitogen activated protein kinase 14, mitogen- activated protein kinase 11, mitogen-
1858	16562	NM_031020	f		activated protein kinase 14
1859	1480	NM_031021	f		casein kinase 2, beta polypeptide, casein kinase II, beta subunit

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					ESTs, Moderately similar to T30989 serine/threonine protein kinase NIK - mouse [M.musculus], RIKEN cDNA 1500031A17 gene, drebrin 1, drebrin-like, hypothetical protein FLJ13154, mitogen-activated protein kinase kinase kinase kinase 4, mitogenactivated protein kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase 6, src homology 3 domain-
1860	1719	NM_031024	n	drebrin 1	containing protein HIP-55
·					DnaJ (Hsp40) homolog, subfamily B, member 6, EST, Moderately similar to NEK1 MOUSE SERINE/THREONINE-PROTEIN KINASE NEK1 [M.musculus], EST, Moderately similar to T31096 cyclin G-associated kinase GAK - rat [R.norvegicus], EST, Weakly similar to T31096 cyclin G-associated kinase GAK - rat [R.norvegicus], ESTS, Moderately similar to NEK1 MOUSE SERINE/THREONINE-PROTEIN KINASE NEK1 [M.musculus], KIAA1048 protein, Mus musculus, Similar to cyclin G associated kinase, clone IMAGE:3487931, mRNA, partial cds, NIMA (never in mitosis gene a)-related expressed kinase 1, RIKEN
	-				cDNA 4632401F23 gene, cyclin G associated kinase, hypothetical protein DKFZp434P0116, serine/threonine
1861	1350	NM_031030	h General		kinase 16 ESTs, Highly similar to GLYCINE AMIDINOTRANSFERASE PRECURSOR [R.norvegicus], RIKEN cDNA 1810003P21 gene, glycine amidinotransferase (L-arginine:glycine amidinotransferase)
					ESTs, Highly similar to GB12 RAT GUANINE NUCLEOTIDE-BINDING PROTEIN, ALPHA-12 SUBUNIT [R.norvegicus], guanine nucleotide binding protein (G protein) alpha 12, guanine nucleotide binding protein (G protein), alpha 13, guanine nucleotide binding protein, alpha 12, guanine
1863	691	NM_031034	W		nucleotide binding protein, alpha 13 guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2, guanine nucleotide binding protein, alpha Inhibiting 2, guanine nucleotide binding protein,
1864	15886	NM_031035	z		alpha inhibiting 3  Homo sapiens, Similar to histamine N-
1866	3608	NM_031044	k,General		methyltransferase, clone MGC:14500 IMAGE:4249496, mRNA, complete cds, expressed sequence Al788969, histamine N-methyltransferase
					Homo sapiens, Similar to histamine N- methyltransferase, clone MGC:14500 IMAGE:4249496, mRNA, complete cds, expressed sequence Al788969,
1866	3610	NM_031044	d,General		histamine N-methyltransferase

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Son (D No:	iga ililar	Capent Ace/; Ref. Seq. ID No.	Model Good	Komologova Cana ili. Kana kasi i	Komely retering avergelench
					EST, Highly similar to C Chain C, Macrophage Migration Inhibitory Factor [H.sapiens], EST, Moderately similar to C Chain C, Macrophage Migration Inhibitory Factor [H.sapiens] EST, Moderately similar to MIF RAT MACROPHAGE MIGRATION
			er e		INHIBITORY FACTOR [R.norvegicus] macrophage migration inhibitory factor macrophage migration inhibitory factor
1867	15137	NM_031051	s		(glycosylation-inhibiting factor) matrix metalloproteinase 14
1868	514	NM_031056	General		(membrane-inserted), matrix metalloproteinase 19, vitronectin RIKEN cDNA 1110038l05 gene,
					aldehyde dehydrogenase family 1, subfamily A4, expressed sequence Al427784, hypothetical protein FLJ23189, methylmalonate-
1869	17269	NM_031057	General		semialdehyde dehydrogenase EST, Moderately similar to R10A MOUSE 60S RIBOSOMAL PROTEIN L10A [M.musculus], EST, Weakly similar to 60S RIBOSOMAL PROTEIN L10A [R.norvegicus], ESTs, Highly similar to R10A_HUMAN 60S RIBOSOMAL PROTEIN L10A [H.sapiens], ribosomal protein L10A,
1870	11849	NM_031065	<u>.</u>		ibosomal protein L10a EST, Highly similar to NU98 RAT NUCLEAR PORE COMPLEX PROTEIN NUP98 [R.norvegicus], ESTs, Weakly similar to NU98 RAT NUCLEAR PORE COMPLEX PROTEIN NUP98 [R.norvegicus], RIKEN cDNA 0610038H21 gene, RIKEN cDNA 4930432K09 gene, RIKEN cDNA 5430432K15 gene, melanoma antigen, family D, 3,
1871	1855	NM_031074	h	nucleoporin 98, nucleoporin 98kD	nucleoporin 98kD, plasma membrane associated protein, S3-12, trophinin
,					phosphatidylinositol 3-kinase, catalytic alpha polypeptide, phosphatidylinosito 4-kinase, catalytic, beta polypeptide, phosphoinositide-3-kinase, catalytic,
1872	4683	NM_031083	d		gamma polypeptide EST, Weakly similar to RALA MOUSE RAS-RELATED PROTEIN RAL-A [M.musculus], Homo sapiens cDNA: FJJ23197 fis, clone REC00917, RIKEN cDNA 1110065D03 gene, v-ra simian leukemia viral oncogene homolog A (ras related), v-ral simian leukemia viral oncogene homolog B
1873	15201	NM_031093	a a,n		(ras related) EST, Weakly similar to RALA MOUSE RAS-RELATED PROTEIN RAL-A [M.musculus], Homo sapiens cDNA: FLJ23197 fis, clone REC00917, RIKEN cDNA 1110065D03 gene, v-ra simian leukemia viral oncogene homolog A (ras related), v-ral simian leukemia viral oncogene homolog B (ras related)

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Sog. ID Ko:	<b>一</b>	Concentiace Ref. Scorid No.	Model Gode	Honologous Cone	
1874	12639	NM 031099	aa		ESTs, Weakly similar to S55912 ribosomal protein L5, cytosolic [H.sapiens], ribosomal protein L5
1074	12039	NW_031099	<i>a</i>		EST, Moderately similar to 60S RIBOSOMAL PROTEIN L10 [M.musculus], EST, Moderately similar to 60S RIBOSOMAL PROTEIN L10 [R.norvegicus], ESTs, Highly similar to A42735 ribosomal protein L10, cytosolic (H.sapiens), Homo sapiens, Similar to ribosomal protein L10, clone MGC:22634 IMAGE:3935452, mRNA, complete cds, Human DNA sequence from clone RP3-334F4 on
					chromosome 6 Contains ESTs, STSs and GSSs. Contains a LAMR1 (laminin receptor 1, ribosomal protein SA) pseudogene and an RPL10 (ribosomal protein L10) pseudogene, Mouse 24.6 kda protein mRNA, complete cds,
1875	20812	NM_031100	<u>a</u> _		ribosomal protein L10 ESTs, Weakly similar to 60S RIBOSOMAL PROTEIN L19 [R.norvegicus], Homo sapiens mRNA; cDNA DKFZp434D115 (from clone DKFZp434D115), ribosomal protein
1876	16938	NM_031103	w		L19
		·			ESTs, Highly similar to JC2120 heparin-binding protein 15 [H.sapiens], ESTs, Moderately similar to RL22 RAT 60S RIBOSOMAL PROTEIN L22 [R.norvegicus], Homo sapiens mRNA; cDNA DKFZp586E0524 (from clone DKFZp586E0524), Human DNA sequence from clone 581F12 on chromosome Xq21. Contains Eukaryotic Translation Initiation Factor EIF3 P35 Subunit and 60S Ribosomal protein L22 pseudogenes. Contains ESTs, RIKEN cDNA 2700038K18 gene, RIKEN cDNA 3110001N18 gene, expressed sequence AU041196,
1877	19268	NM_031104			ribosomal protein L22 EST, Weakly similar to RS9 RAT 40S RIBOSOMAL PROTEIN S9 [R.norvegicus], EST, Weakly similar to S55917 ribosomal protein S9, cytosolic [H.sapiens], Homo sapiens, clone IMAGE:4500773, mRNA, partial cds, RIKEN cDNA 3010033P07 gene, expressed sequence AL022771, expressed sequence AL022885, milochondrial ribosomal protein S4,
1878	16929_	NM_031108	q		ribosomal protein S9 EST, Weakly similar to 40S RIBOSOMAL PROTEIN S11 [R.norvegicus], Homo sapiens mRNA; cDNA DKFZp434A0326 (from clone
1879	10878	NM_031110	q,bb		DKFZp434A0326), Human DNA sequence from clone RP5-1060K6 on chromosome 20p12.1-13. Contains an RPS11 (40S ribosomal protein S11) pseudogene, ESTs, STSs and GSSs, RAD21 homolog (S. pombe), ribosomal protein S11

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					EST, Moderately similar to 40S RIBOSOMAL PROTEIN S21 [R.norvegicus], Human DNA sequence from clone RPS-1116H23 on chromosome 20 Contains a novel gene, a 40S ribosomal protein S21 pseudogene, 2 CpG Islands, ESTs, STSs and GSSs, RIKEN cDNA 1810049N11 gene, RIKEN cDNA 2410030A14 gene, ribosomal protein
1880	19162	NM_031111	aa		S21 EST, Moderately similar to 40S RIBOSOMAL PROTEIN S21 [R.norvegicus], Human DNA sequence from clone RP5-1116H23 on chromosome 20 Contains a novel gene, a 40S ribosomal protein S21 pseudogene, 2 CpG islands, ESTs, STSs and GSSs, RIKEN cDNA 1810049N11 gene, RIKEN cDNA 2410030A14 gene, ribosomal protein S21
1880	19161	NM_031111	a,bb		EST, Highly similar to 40S RIBOSOMAL PROTEIN S24 [R.norvegicus], EST, Weakly similar to JH0213 ribosomal protein S24, cytosolic [H.sapiens], EST, Weakly similar to RS24_HUMAN 40S RIBOSOMAL PROTEIN S24 [M.musculus], ESTs, Highly similar to JH0213 ribosomal protein S24, cytosolic [H.sapiens], ESTs, Weakly similar to RS24_HUMAN 40S RIBOSOMAL PROTEIN S24 [H.sapiens], ribosomal protein S24
1882	20839		a.q		EST, Moderately similar to S12583 polyubiquitin 4 - mouse [M.musculus], EST, Moderately similar to ubiquitin / ribosomal protein S27a [R.norvegicus], EST, Weakly similar to R27A_HUMAN 40S RIBOSOMAL PROTEIN S27A (SUB 77-156 [H.sapiens], Homo sapiens cDNA FLJ11603 fis, clone HEMBA1003926, RIKEN cDNA 0610006J14 gene, expressed sequence Al132487, ribosomal protein S27a, ubiquitin C
1883	19040	NM_031114	I,m,General	S100 calcium binding protein A10 (calgizzarin), S100 calcium-binding protein A10 (annexin II ligand, calpactin I, light polypeptide (p11))	EST, Moderately similar to A Chain A, P11 [H.sapiens], EST, Moderately similar to CALPACTIN I LIGHT CHAIN [R.norvegicus], S100 calcium-binding protein A10 (annexin II ligand, calpactin I, light polypeptide (p11)), calcium binding protein A11 (calgizzarin) ESTs, Highly similar to 2111411A
1884	16349	NM_031115	U		secretin receptor [H.sapiens], ESTs, Weakly similar to vasoactive intestinal polypeptide 1 [M.musculus], adenylate cyclase activating polypeptide 1 receptor 1, secretin receptor, vasoactive intestinal peptide receptor 1

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Seg, ID :	1.15	ConBank Acel.	Maddleads 4	Homologous Cono	
ices.	<u>ice muso</u>	·			ESTs, Highly similar to SUOX RAT SULFITE OXIDASE PRECURSOR [R.norvegicus], RIKEN cDNA 0610009N12 gene, RIKEN cDNA 1810044022 gene, RIKEN cDNA
1885	14970	NM_031127	General		2810034J18 gene, fatty acid desaturase 2, sulfite oxidase
				thyroid hormone receptor alpha, thyroid hormone receptor, alpha (avian erythroblastic leukemia viral (v-erb-a) oncogene	EST. Weakly similar to A30893 thyroid homone receptor alpha, splice form 2 [H.sapiens], expressed sequence AW259572, expressed sequence R75201, thyroid hormone receptor, alpha (avian erythroblastic leukemia
1886	1814	NM_031134	n,q	homolog)	viral (v-erb-a) oncogene homolog) Kruppel-like factor 15 (kidney), Kruppel
-					like factor 9, RIKEN cDNA 4930480116 gene, TGFB inducible early growth response, basic transcription element binding protein 1, trans-acting transcription factor 3, trans-acting
1887	13359	NM_031135	General		transcription factor 6 ESTs, Highly similar to A38682 thymosin beta-4 [H.sapiens], ESTs, Highly similar to TYB4 MOUSE THYMOSIN BETA-4 [M.musculus], ESTs, Highly similar to TYB4_HUMAN THYMOSIN BETA-4 [H.sapiens],
1888	15052	NM_031136	a .		Human interferon-inducible mRNA (cDNA 6-26), expressed sequence AW544206, thymosin, beta 10, thymosin, beta 4, X chromosome, thymosin, beta 4, Y chromosome
1888	19359	NM_031136	а		EST, Moderately similar to A25074
			9		vimentin [H.sapiens], EST, Weakly similar to A25074 vimentin [H.sapiens], ESTs, Moderately similar to VIME RAT VIMENTIN [R.norvegicus], ESTs, Weakly similar to A25074 vimentin [H.sapiens], ESTs, Weakly similar to VIME RAT VIMENTIN [R.norvegicus],
1889	15185	NM_031140	General		vimentin EST, Weakly similar to ACTB_HUMAN
					ACTIN, CYTOPLASMIC 1 [R.norvegicus], ESTs, Highly similar to ATHUB actin beta [H.sapiens], ESTs, Weakly similar to ACTB_HUMAN ACTIN, CYTOPLASMIC 1 [R.norvegicus], Homo sapiens FKSG30 (FKSG30) mRNA, complete cds, RIKEN cDNA 1700052K15 gene, RIKEN cDNA 1700061J02 gene, actin, beta, actin-like 7a, actin-related protein
1890	21625	NM_031144	a,e		3-beta, melanoma X-actin CATX-8 protein, ESTs, Weakly similar to R11A_HUMAN RAS-RELATED PROTEIN RAB-11A [R.norvegicus], RAB, member of RAS oncogene family like 2A, RAB11A, member RAS oncogene family, RAB11a, member RAS oncogene family, RAB11a, member RAS oncogene family, RAB25, member RAS oncogene family, RIKEN cDNA 2700023P08 gene

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1891 2	240	NM 031152	bb		CATX-8 protein, ESTs, Weakly simila to R11A_HUMAN RAS-RELATED PROTEIN RAB-11A [R.norvegicus], RAB, member of RAS oncogene familike 2A, RAB11A, member RAS oncogene family, RAB11a, member RAS oncogene family, RAB25, member RAS oncogene family, RIKE cDNA 2700023P08 gene
	15277	NM 031237			EST, Moderately similar to UB5B_HUMAN UBIQUITIN-CONJUGATING ENZYME E2-17 KD [R.norvegicus], ESTs, Moderately similar to 159365 ubiquitin conjugating enzyme [H.sapiens], ESTs, Moderate similar to UB5B_HUMAN UBIQUITIN. CONJUGATING ENZYME E2-17 KD [M.musculus], RIKEN cDNA 1100001F19 gene, RIKEN cDNA 2700084L22 gene, Rattus norvegicus clone ubc2e ubiquitin conjugating enzyme (E217kB) mRNA, complete cds, expressed sequence AL022654, ubiquitin-conjugating enzyme E2D 1 (homologous to yeast UBC4/5), ubiquitin-conjugating enzyme E2D 2, ubiquitin-conjugating enzyme E2D 2 (homologous to yeast UBC4/5) ubiquitin-conjugating enzyme E2D 3 (homologous to yeast UBC4/5)
1892 1	15277	NM_031237	9		[Inomologous to yeast UBC415] ESTs, Weakly similar to YZ28_HUMAN HYPOTHETICAL PROTEIN ZAP128 [H.sapiens], Mus musculus, Similar to cytosolic acyl- CoA thioesterase 1, clone MGC:2757

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Seq. (D.) No.	ldentifier:	Consent Acel Rol Seq. ID No.	Modal Goda	Homologous Garo Name	Homologous Civilar Name:
				cytosolic acyl-CoA thioesterase 1,	PTE2_HUMAN PEROXISOMAL ACYL-COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL-COA THIOESTERASE 2) (ZAP128) [H.sapiens], ESTs, Moderately similar to JE0267 long-chain fatty-acyl-CoA hydrolase (EC 3.1.2) peroxisome proliferator-inducible - rat [R.norvegicus], ESTs, Moderately similar to PTE2_HUMAN PEROXISOMAL ACYL-COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL-COA THIOESTER HYDROLASE 2) (ZAP128) [H.sapiens], ESTs, Weakly similar to PTE2_HUMAN PEROXISOMAL ACYL-COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL ACYL-COENZYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACYL-COA THIOESTERASE 2) (ZAP128) [H.sapiens], ESTs, Weakly similar to YZ28_HUMAN HYPOTHETICAL PROTEIN ZAP128 [H.sapiens], Mus musculus, Similar to cytosolic acyl- COA thioesterase 1, cone MGC:27572 IMAGE:4485973, mRNA, complete cds, RIKEN cDNA 4632408A20 gene, cytosolic acyl-CoA thioesterase 1,
1893	1858	NM_031315	g	peroxisomal long-chain acyl-coA thioesterase	expressed sequence AW108394, peroxisomal long-chain acyl-coA t-complex testis expressed 1, t-
1894	15663	NM_031318_	General		complex-associated-testis-expressed 1 like 1
1895	1422	NM 031324	bb,General		ESTs, Moderately similar to 138134 prolyl oligopeptidase [H.sapiens], prolyl endopeptidase
1896	18597	NM_031325	g,bb		UDP-glucose dehydrogenase
1897	11259	NM_031327	i,cc,General	·	ESTs, Moderately similar to CYR6 MOUSE CYR61 PROTEIN PRECURSOR [M.musculus], cysteine rich protein 61, cysteine-rich, angiogenic inducer, 61
1898	4235	NM_031330	General	heterogeneous nuclear ribonucleoprotein A/B	ESTs, Highly similar to WZHURS argininosuccinate lyase [H.sapiens], ESTs, Weakly similar to 1601424A argininosuccinate lyase [R. norvegicus], Homo sapiens cDNA FLJ14312 fis, clone PLACE3000322, Musashi-1 homolog (Drosophila), RIKEN cDNA 2510006M18 gene, RIKEN cDNA 4933434H11 gene, argininosuccinate lyase, heterogeneous nuclear ribonucleoprotein A/B, heterogeneous nuclear ribonucleoprotein A/B, heterogeneous nuclear ribonucleoprotein D-like EST, Weakly similar to PSD4_HUMAN 26S PROTEASOME REGULATORY SUBUNIT S5A [H.sapiens], ESTs, Moderately similar to PSD4_HUMAN 26S PROTEASOME REGULATORY SUBUNIT S5A [H.sapiens],
1899	18375	NM_031331	l,m		proteasome (prosome, macropain) 26S subunit, non-ATPase, 4

TABLES	e (DUMAN	HOWOTOGATE VI	SKOLVÁLOKI		Ally Docket No. 44921-693900
Sog ID	ldentifier	Confentiace/ Refrequibile	Model Gode	Monologous Gono Mairo	Doc. No. 1799997.1 Komologeviš Čluster Klanč
1900	3519	NM_031334	cc	cadherin 1, cadherin 1, type 1, E-cadherin ((epithelial)	ESTs, Weakly similar to I49556 cadherin-11 - mouse [M.musculus], RIKEN cDNA 2610005L07 gene, cadherin 1, type 1, E-cadherin (epithelial), cadherin 6, cadherin 6, type 2, K-cadherin (fetal kidney)
1901	20698	NM_031357	b		
1903	634	NM_031509	n		EST, Moderately similar to GTC MOUSE GLUTATHIONE S- TRANSFERASE YC [M.musculus], glutathione S-transferase A3, glutathione S-transferase, alpha 3
1903	25525	NM 031509	n		
1903	25069	NM_031509	b,n,w		
1903	635	NM 031509	z		EST, Moderately similar to GTC MOUSE GLUTATHIONE S- TRANSFERASE YC [M.musculus], glutathione S-transferase A3, glutathione S-transferase, alpha 3
			·		EST, Highly similar to RON_HUMAN MACROPHAGE-STIMULATING PROTEIN RECEPTOR PRECURSOR [H.sapiens], ESTs, Highly similar to TVHUME hepatocyte growth factor receptor precursor [H.sapiens], Musmusculus D86 mRNA, complete cds, Rattus norvegicus ryk mRNA for tyrosine kinase-related protein, partial cds, macrophage stimulating 1
·	,		·	met proto-oncogene, met proto-oncogene (hepatocyte growth factor	receptor (c-met-related tyrosine kinase), met proto-oncogene, met proto-oncogene (hepatocyte growth
1904	848	NM_031517	t	receptor)	factor receptor) RIKEN cDNA 0610007D04 gene, kallikrein 1, renal/pancreas/salivary, kallikrein 5, kallikrein 9, nerve growth factor, alpha, nerve growth factor,
1905	1872	NM_031523	la		gamma
1905	16245	NM_031523	a,d,u		EST, Moderately similar to epidermal growth factor binding protein type 1 [M.musculus], EST, Weakly similar to pre-pro-protein for kallikrein [H.sapiens] EST, Moderately similar to epidermal growth factor binding protein type 1 [M.musculus], EST, Weakly similar to pre-pro-protein for kallikrein
1905	16244	NM 031523	a		[H.sapiens]
1906	9370	NM_031527	w	protein phosphatase 1, catalytic subunit, alpha isoform	EST, Weakly similar to JN0723 phosphoprotein phosphatase [H.sapiens], protein phosphatase 1, catalytic subunit, alpha isoform
1907	20448	NM_031530	General	small inducible cytokine A2, small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig- je)	EST, Weakly similar to SY02 RAT SMALL INDUCIBLE CYTOKINE A2 PRECURSOR [R.norvegicus], expressed sequence Al323594, expressed sequence AW987545, small inducible cytokine A2, small inducible cytokine A24, small inducible cytokine A7 (monocyte chemotactic protein 3), small inducible cytokine subfamily A (Cys-Cys), member 17

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Seq.ID` No:	e Lionillor	ConDonix Ace./ Röf. Sec. (D No.)	Model Gode	Homologous Care	Homologora Eireler Kema
				small inducible cytokine	EST, Weakly similar to SY02 RAT SMALL INDUCIBLE CYTOKINE A2 PRECURSOR [R.norvegicus], expressed sequence Al323594, expressed sequence AW987545, small
				A2, small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig-	inducible cytokine A2, small inducible cytokine A24, small inducible cytokine A7 (monocyte chemotactic protein 3), small inducible cytokine subfamily A
1907	20449	NM_031530	General .	je)	(Cys-Cys), member 17 ESTs, Moderately similar to UDP-
			•		GLUCURONOSYLTRANSFERASE 285 PRECURSOR, MICROSOMAL [M.musculus], ESTs, Weakly similar to UDB7_HUMAN UDP-GLUCURONOSYLTRANSFERASE 287 PRECURSOR, MICROSOMAL [H.sapiens], ESTs, Weakly similar to UDBH_HUMAN UDP-GLUCURONOSYLTRANSFERASE 2817 PRECURSOR, MICROSOMAL [H.sapiens], RIKEN cDNA 0610033E06 gene, UDP
- 30	:		v		glycosyltransferase 2 family, polypeptide B17, UDP- glucuronosyltransferase 2 family, member 5, expressed sequence
1908	14633	NM_031533	υ		AA986709 CD36 antigen (collagen type I
1909	16048	NM_031541	f	CD36 antigen (collagen type I receptor, thrombospondin receptor)- like 1, scavenger receptor class B1	receptor, thrombospondin receptor)- like 1, CD36 antigen (collagen type I receptor, thrombospondin receptor)- like 2, ESTs, Weakly similar to JC5533 scavenger receptor class B type I precursor - rat [R.norveglcus], Homo sapiens scavenger receptor class B type III SR-BIII mRNA, partial cds, scavenger receptor class B1
1910	4011	NM 031543	c,q	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol- inducible)	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol-inducible)
1910	4010	NIM 031543	:	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol- inducible)	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol-inducible)
1910	4012	NM_031543	c,q  	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol- inducible)	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol-inducible)
				regucalcin, regucalcin (senescence marker protein-30)	regucalcin, regucalcin (senescence marker protein-30)
1911	24540	NM_031546	General .	sodium channel, nonvoltage-gated 1 alpha, sodium channel, nonvoltage-gated, type I,	expressed sequence AW742291, sodium channel, nonvoltage-gated 1 alpha, sodium channel, nonvoltage- gated 1, delta, sodium channel, nonvoltage-gated, type I, alpha
1912 1913	17149	NM_031548 NM_031549	h,cc x	alpha polypeptide transgelin	polypeptide transgelin
1913	17151	NM_031549	х	transgelin	transgelin

TABLES	REMINIAN S	HOWOTOGATE VI	CHOTATIONS	I:	Ally, Docket No. 4421-533300 Doc. No. 1793597.1
900, ID	reiilbreid	Cendent Ace./ Rel Seq. ID No.	Madel Gode	Honologous Cano	Homologovis Civister Name
1006,1-47	((ELG)(G((E))	jacon eegs as acco.	anguar eses		ESTs, Moderately similar to ADDG MOUSE GAMMA ADDUCIN
					(ADDUCIN-LIKE PROTEIN 70)
1914	13105	NM_031552	w	adducin 3 (gamma)	[M.musculus], adducin 3 (gamma)
					ESTs, Weakly similar to CPT1 MOUSE CARNITINE O-
					PALMITOYLTRANSFERASE I,
					MITOCHONDRIAL LIVER ISOFORM
					[M.musculus], ESTs, Weakly similar to
					palmitoyltransferase [H.sapiens],
					ESTs, Weakly similar to MITOCHONDRIAL CARNITINE O-
					PALMITOYLTRANSFERASE I, LIVER
				carnitine	ISOFORM [R.norvegicus], carnitine
				palmitoyltransferase 1, liver, carnitine	palmitoyltransferase 1, liver, carnitine palmitoyltransferase 1, muscle,
1915	15411	NM 031559	d,r	palmitoyltransferase I, liver	camitine palmitoyltransferase I, liver
10.0	10111			Y box protein 1, nuclease	ESTs, Highly similar to 139382 Y box-
4046	16164	NM 031563	a,y	sensitive element binding protein 1	binding protein 1 - human [H.sapiens], RIKEN cDNA 1700102N10 gene
1916	10104	1414 03 1363	a,y	protein 1	EST, Moderately similar to 40S
					RIBOSOMAL PROTEIN S7
		0.			[R.norvegicus], EST, Weakly similar to 40S RIBOSOMAL PROTEIN S7
					[R.norvegicus], EST, Weakly similar to
	ŀ				RS7_HUMAN 40S RIBOSOMAL PROTEIN S7 [M.musculus], ESTs,
					Highly similar to JC4388 ribosomal
					protein S7, cytosolic [H.sapiens],
					ESTs, Highly similar to RS7_HUMAN 40S RIBOSOMAL PROTEIN S7
					[H.sapiens], nuclear factor of kappa
					light polypeptide gene enhancer in B-
4047	0004	NIM 024570	bb	ribosomal protein S7	cells inhibitor-like 2, ribosomal protein
1917	9621	NM_031570	100	Ilbosomai protein or	EST, Moderately similar to 40S
					RIBOSOMAL PROTEIN S7
			,		[R.norvegicus], EST, Weakly similar to 40S RIBOSOMAL PROTEIN S7
	Ì				[R.norvegicus], EST, Weakly similar to
			ł		RS7_HUMAN 40S RIBOSOMAL PROTEIN S7 [M.musculus], ESTs,
					Highly similar to JC4388 ribosomal
ľ	ł				protein S7, cytosolic [H.sapiens],
	1				ESTs, Highly similar to RS7_HUMAN 40S RIBOSOMAL PROTEIN S7
					[H.sapiens], nuclear factor of kappa
				1	light polypeptide gene enhancer in B-
1017	9620	NIM 031570	l <sub>w bb</sub>	ribosomal protein S7	cells inhibitor-like 2, ribosomal protein S7
1917	3020	NM_031570	w,bb	moodomar protein or	ESTs, Moderately similar to
	1	1			KPBG_HUMAN PHOSPHORYLASE B
		1	- X-		KINASE GAMMA CATALYTIC CHAIN, SKELETAL MUSCLE ISOFORM
					[H.sapiens], ESTs, Moderately similar
1					to PHOSPHORYLASE B KINASE
		1			GAMMA CATALYTIC CHAIN, SKELETAL MUSCLE ISOFORM
					[R.norvegicus], RIKEN cDNA
1					1500017102 gene, endoplasmic
		1		phosphorylase kinase	reticulum (ER) to nucleus signalling 2, phosphorylase kinase gamma,
			1	gamma, phosphorylase	phosphorylase kinase, gamma 1
1918	546	NM_031573	ſ	kinase, gamma 1 (muscle)	(muscle)

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Domain Of Human Cytochrome P458 Reductase At 1.93a Resolution (SUI 61-24 If Haspiens), NADPH- dependent FNN and FAD containing oxidoreductase, P450 (cytochrome) oxidoreductase, P450 (cytochrome) oxidoreductase, RIKEN cDNA 4930447P04 gene, hypothetical protein FL/10900  1919	TABLE &		;iavorogasvx	NOVATIONS		Ally, Doctol No. 44221-5032W0 Doc. No. 1763397.1
Crystal Structure of The Frem-Broid Demain of Human Cytochrome P45 Reductase A1 1,938 Resolution (SUI 61-24   H.sapiens), NADPH-dependent FMN and FAD containing oxidoreductase, P459 (cytochrome) oxidoreductase, P459 (cytochrome) oxidoreductase, RIKEN cDNA 4930447 P94 gene, hypothetical protein FL109900 protein	Sog. [D No.	lden(llfler)	Coneant Acc./ Ref. Seq. (D No.)	Modil Godo	Hemologous Cone Nemo zir harring	Homologoris Cherk Vewe
SETS, Highly similar to A Chain A, Crystal Structor OT The Finn-Bindin Domain Of Human Cytochrome P45 Reductase At 1.93a Resolution (SUE 51-241 [H.sapiens], NADPH-H dependent FMN and FAD Containing oxidoreductase, P450 (cytochrome) oxidoreductase, P450 (cytochrome) oxidoreductase, P450 (cytochrome) oxidoreductase, P450 (cytochrome) oxidoreductase, RIKEN CDNA 4930447P94 gene, hypothetical protein FL10900 protein lyrosine phosphatase 4a1, protein lyrosine phosphatase 4a2, protein lyrosine phosphatase 4a2, protein lyrosine phosphatase 4a2, protein lyrosine phosphatase 4a1, protein lyrosine phosphatase 4a2, protein lyrosine phosphatase 4a2, protein lyrosine phosphatase 4a2, protein lyrosine phosphatase 4a3, protein lyrosine phosphatase 4a3, protein lyrosine phosphatase 4a3, protein lyrosine phosphatase 4a3, protein lyrosine phosphatase type IVA, member 1 SET, Moderately similar to JC4884 organic cation transporter protein 2 rat [R.novegicus], EST, Weakly similar to CON2 MOUSE ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.musculus], EST, Highly similar to CON2 MOUSE ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.sapiens], EST, Highly similar to OCN2 MOUSE ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.sapiens], EST, Highly similar to OCN2 MOUSE ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.sapiens], EST, Highly similar to OCN2 MOUSE ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.sapiens], EST, Highly similar to ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.sapiens], EST, Highly similar to ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.sapiens], EST, Highly similar to ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.sapiens], EST, Weakly similar to ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.sapiens], EST, Weakly similar to ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.sapiens], EST, Weakly similar to ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.sapiens], EST, Weakly similar to ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.sapiens], EST, Weakly similar to NRG2, MOUSE PRONEUREGULIN-2 (NRG-2) (OVERGENT OF NEUREGULIN-2 (NRG-2) (OVERGENT OF NEUREGULIN-2 (NRG-2) (OVERGENT OF NEUREGU	1919	1921	NM 031576	f		Crystal Structure Of The Fmn-Binding Domain Of Human Cytochrome P450 Reductase At 1.93a Resolution (SUB 61-241 [H.sapiens], NADPH- dependent FMN and FAD containing oxidoreductase, P450 (cytochrome) oxidoreductase, RIKEN cDNA 4930447P04 gene, hypothetical
1920 NM_031576 r oxidoreductase protein FLJ10900 protein tyrosine phosphatase 4a1, protein tyrosine phosphatase 4a2, protein tyrosine phosphatase type IV member 1, protein tyrosine phosphatase type IV member 1, protein tyrosine phosphatase type IV member 2, protein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase type IV member 3 Portein tyrosine phosphatase 4a1, protein tyrosine phosphatase 4a2, protein tyrosine phosphatase type IV member 3 Portein tyrosine p		-				Crystal Structure Of The Fmn-Binding Domain Of Human Cytochrome P450 Reductase At 1.93a Resolution (SUB 61-241 [H.sapiens], NADPH- dependent FMN and FAD containing oxidoreductase, P450 (cytochrome) oxidoreductase, RIKEN cDNA
protein tyrosine phosphatase 4a2, protein tyrosine phosphatase 4x2, protein tyrosine phosphatase 4x2, protein tyrosine phosphatase type IV member 1, protein tyrosine phosphatase type IV member 3 protein tyrosine phosphatase type IVA, protein tyrosine phosphatase type IVA, protein tyrosine phosphatase type IVA, protein tyrosine phosphatase type IVA, protein tyrosine phosphatase type IVA, protein tyrosine phosphatase type IVA, protein tyrosine phosphatase type IVA, protein tyrosine phosphatase type IVA, protein tyrosine phosphatase type IVA, member 3 protein tyrosine phosphatase type IVA, member 3 protein tyrosine phosphatase type IVA, member 3 protein tyrosine phosphatase type IVA, member 3 protein tyrosine phosphatase type IVA, member 3 protein tyrosine phosphatase type IVA, member 3 protein tyrosine phosphatase type IVA, member 3 protein tyrosine phosphatase type IVA, member 3 protein tyrosine phosphatase type IVA, member 3 pro	1919	1920	NM_031576	r		protein FLJ10900
EST, Moderately similar to JC4884 organic cation transporter protein 2 - rat [R.norvegicus], EST, Weakty similar to OCN2 MOUSE ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.musculus], ESTs, Highly similar to OCN2 HUMAN ORGANIC CATION/CARNITINE TRANSPORTE 2 [H.sapiens], ESTs, Highly similar to organic cation transporter [H.sapiens organic cation transporter], member 1, solute carrier family 22 (organic cation transporter), member 4, solute carrier family 22 (organic cation transporter), member 4, solute carrier family 22 (organic cation transporter), member 2 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 3 (organic cation transporter), member 4 (organic cation transporter), member 5 (organic cation transporter), member 6 (organic cation transporter), member 7 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (organic cation transporter), member 9 (org	4020	24240	NIM 024570	i Conoral	phosphatase 4a1, protein tyrosine phosphatase type	protein tyrosine phosphatase 4a2, protein tyrosine phosphatase type IVA, member 1, protein tyrosine phosphatase type IVA, member 2, protein tyrosine phosphatase type IVA.
organic cation transporter protein 2 - rat [R.norvegicus], EST, Weakly similar to OCN2 MOUSE ORGANIC CATION/CARNITINE TRANSPORTE 2 [M.musculus], ESTs, Highly similar to OCN2 HUMAN ORGANIC CATION/CARNITINE TRANSPORTE 2 [H.sapiens], ESTs, Highly similar to organic cation transporter [H.sapiens organic cation transporter-like 1, solute carrier family 22 (organic cation transporter), member 1, solute carrier family 22 (organic cation transporter), member 4, solute carrier family 22 (organic cation transporter), member 4, solute carrier family 22 (organic cation transporter), member 5, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (or	1920	24219	NM_031579	i,General	IVA, member i	
transporter), member 1, solute carrier family 22 (organic cation transporter member 4, solute carrier family 22 (organic cation transporter), member 3, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22 (organic cation transporter), member 9, solute carrier family 22, member 3  ESTs, Highly similar to NRG2_MOU PRO-NEUREGULIN-2 PRECURSOR (PRO-NRG2) (CONTAINS: NEUREGULIN-2 (NRG-2) (DIVERGENT OF NEUREGULIN 1) (DON-1)) [M.musculus], ESTs, Weal similar to NRG2_MOUSE PRO-NEUREGULIN-2 PRECURSOR (PRORG2) (CONTAINS: NEUREGULIN-2 PRECURSOR (PRORG2) (CONTAINS: NEUREGULIN-2) (DIVERGENT OF NEUREGULIN-2) (DIVERGEN		*	ē			organic cation transporter protein 2 - rat [R.norvegicus], EST, Weakly similar to OCN2 MOUSE ORGANIC CATION/CARNITINE TRANSPORTER 2 [M.musculus], ESTs, Highly similar to OCN2_HUMAN ORGANIC CATION/CARNITINE TRANSPORTER 2 [H.sapiens], ESTs, Highly similar to organic cation transporter [H.sapiens], organic cationic transporter-like 1,
ESTs, Highly similar to NRG2_MOU PRO-NEUREGULIN-2 PRECURSOI (PRO-NRG2) (CONTAINS: NEUREGULIN-2 (NRG-2) (DIVERGENT OF NEUREGULIN 1) (DON-1)] [M.musculus], ESTs, Weal similar to NRG2_MOUSE PRO- NEUREGULIN-2 PRECURSOR (PR NRG2) [CONTAINS: NEUREGULIN (NRG-2) (DIVERGENT OF			g . 134		(organic cation	transporter), member 1, solute carrier family 22 (organic cation transporter), member 4, solute carrier family 22 (organic cation transporter), member
PRO-NEŬREGULIN-2 PRECURSOI (PRO-NRG2) [CONTAINS: NEUREGULIN-2 (NRG-2) (DIVERGENT OF NEUREGULIN 1) (DON-1)] [M.musculus], ESTs, Weal similar to NRG2 MOUSE PRO- NEUREGULIN-2 PRECURSOR (PR NRG2) [CONTAINS: NEUREGULIN-1 (NRG-2) (DIVERGENT OF	1921	770	NM_031584	k,x	transporter), member 2	
1922 18008 NM_031588 cc [M.musculus], neuregulin 1	4005	40000	ANA 004505			PRO-NEUREGULIN-2 PRECURSOR (PRO-NRG2) [CONTAINS: NEUREGULIN-2 (NRG-2) (DIVERGENT OF NEUREGULIN 1) (DON-1)] [M.musculus], ESTs, Weakly similar to NRG2_MOUSE PRO-NEUREGULIN-2 PRECURSOR (PRO-NRG2) [CONTAINS: NEUREGULIN-2 (NRG-2) (DIVERGENT OF NEUREGULIN 1) (DON-1)]

TABLES	s 'kińiviyi'i	i okofogni vz	EXIOTATIONS		:Ally, Doctol No. 44221-5009W0 Doc. No. 1793397.1
Seq. (D).		ConDenk Ace/ Reil Seg. ID No:	Model Gode	Homologous Caro	Homologovs Cluster Namo
wes ::',	acicoantico				ESTs, Highly similar to NRG2_MOUSE PRO-NEUREGULIN-2 PRECURSOR
					(PRO-NRG2) (CONTAINS:
					NEUREGULIN-2 (NRG-2)
			i		(DIVERGENT OF NEUREGULIN 1) (DON-1)] [M.musculus], ESTs, Weakly
					similar to NRG2_MOUSE PRO-
	·		ľ		NEUREGULIN-2 PRECURSOR (PRO-
					NRG2) [CONTAINS: NEUREGULIN-2
					(NRG-2) (DIVERGENT OF
		77			NEUREGULIN 1) (DON-1)]
1922	18005	NM_031588	<u>n</u>		[M.musculus], neuregulin 1 ESTs, Highly similar to NRG2_MOUSE
					PRO-NEUREGULIN-2 PRECURSOR
					(PRO-NRG2) [CONTAINS:
			1		NEUREGULIN-2 (NRG-2)
					(DIVERGENT OF NEUREGULIN 1)
			ŀ		(DON-1)] [M.musculus], ESTs, Weakly
					similar to NRG2_MOUSE PRO- NEUREGULIN-2 PRECURSOR (PRO-
					NRG2) [CONTAINS: NEUREGULIN-2
					(NRG-2) (DIVERGENT OF
					NEUREGULIN 1) (DON-1)]
1922	18011	NM_031588	cc,General		[M.musculus], neuregulin 1
					EST, Moderately similar to PRSA RAT
					26S PROTEASE REGULATORY SUBUNIT 6A [R.norvegicus], EST,
					Weakly similar to PRS4 MOUSE 26S
					PROTEASE REGULATORY SUBUNIT
			<b>\</b>	1	4 [M.musculus], EST, Weakly similar
	1		1		to PRSA RAT 26S PROTEASE
					REGULATORY SUBUNIT 6A
		]			[R.norvegicus], ESTs, Moderately similar to PRSA RAT 26S PROTEASE
	,				REGULATORY SUBUNIT 6A
İ	1				[R.norvegicus], expressed sequence
	\				Al325227, protease (prosome,
ł			i	proteasome (prosome,	macropain) 26S subunit, ATPase 1,
				macropain) 26S subunit,	proteasome (prosome, macropain)
				ATPase 3, proteasome (prosome, macropain) 26S	26S subunit, ATPase 3, proteasome (prosome, macropain) 26S subunit,
1000	1584	NM 031595	l <sub>k</sub>	subunit, ATPase, 3	ATPase, 3
1923	1564	14M_031393	<u> </u>	30001111, A11 830, 0	Mus musculus adult male small
1					intestine cDNA, RIKEN full-length
					enriched library, clone:2010001F03,
	1				full insert sequence, glutathione
					reductase 1, thioredoxin reductase 1, thioredoxin reductase 2, thioredoxin
1924	24235	NM_031614	l,	thioredoxin reductase 1	reductase beta
1924	24233	1414 031014	<del> </del>	and decemped to	Mus musculus adult male small
					intestine cDNA, RIKEN full-length
					enriched library, clone:2010001F03,
		1	1		full insert sequence, glutathione
					reductase 1, thioredoxin reductase 1, thioredoxin reductase 2, thioredoxin
1924	24234	NM_031614	General	thioredoxin reductase 1	reductase beta
1924	24234	141W 03 10 14	General	and cookin rouse to	EST, Moderately similar to A56043
					steroid hormone receptor-like protein
					RLD-1 - rat [R.norvegicus], expressed
					sequence AU018371, nuclear receptor
1		ì	1	nuclear receptor subfamily	subfamily 1, group H, member 3, nuclear receptor subfamily 1, group H,
1925	1639	NM 031627	j.1,v	1, group H, member 3	member 4
1323	11003	1.111 00 1021	Dist.	1., 3.005 1., 1101100. 0	<del></del>

ĮĄBUE 8	E ENGWAN	<u>KÖMOFOĞAE VI</u>	* EXOTATON	Jan 1947 (1948 - 1948)	Atty. Doctol No. 44921-5999W0 Doc. No. 179997.1
909. ID		ConBonk Accel Roi Soo ID No	doo ledom	Honologous Cono Namo: Regional Cono	Homologicus Cluster Namo
	ocedanies 0			, p. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	EST, Moderately similar to CPBP RAT CORE PROMOTER ELEMENT-BINDING PROTEIN [R.norvegicus],
					ESTs, Moderately similar to CPBP RAT CORE PROMOTER ELEMENT- BINDING PROTEIN [R norvegicus],
402E	4727	NIM 024642	m,General	core promoter element binding protein	Kruppel-like factor 3 (basic), Kruppel- like factor 5, Kruppel-like factor 7 (ubiquitous), core promoter element binding protein
1926	1727	NM_031642	III,General .	binding protess	ESTS, Highly similar to MPK1 MOUSE DUAL SPECIFICITY MITOGEN- ACTIVATED PROTEIN KINASE
				•	KINASE 1 [M.musculus], ESTs, Moderately similar to MPK1_HUMAN DUAL SPECIFICITY MITOGEN-
					ACTIVATED PROTEIN KINASE KINASE 1 [H.sapiens], Mus musculus 12 days embryo head cDNA, RIKEN
				*	full-length enriched library, clone:3000002B10, full insert sequence, mitogen activated protein kinase kinase 1, mitogen activated
				mitogen activated protein kinase kinase 2, mitogen-	protein kinase kinase 3, mitogen activated protein kinase kinase 7, mitogen-activated protein kinase
1927	20766	NM_031643	у	activated protein kinase kinase 2	kinase 1, mitogen-activated protein kinase kinase 7 latexin, latexin protein, retinoic acid
1929	1993	NM_031655	k,I,m,General	latexin, latexin protein	receptor responder (tazarotene induced) 1
	,		·		Human DNA sequence from clone RP5-822J19 on chromosome 20. Contains an alpha-endosulfine pseudogene, STSs and GSSs, cyclic
1930	2057	NM 031660	ө	·	AMP phosphoprotein, 19 kD, cyclic AMP phosphoprotein, 19kD, endosulfine alpha
					EST, Moderately similar to PET2 RAT OLIGOPEPTIDE TRANSPORTER, KIDNEY ISOFORM [R. norvegicus],
				alute amine formile 45	EST, Moderately similar to PET2_HUMAN OLIGOPEPTIDE TRANSPORTER, KIDNEY ISOFORM
1931	15039	NM_031672	k,General	solute carrier family 15 (H+/peptide transporter), member 2	[H.sapiens], expressed sequence C78862, solute camer family 15 (H+/peptide transporter), member 2 2-4-dienoyi-Coenzyme A reductase 2,
				·	peroxisomal, ESTs, Weakly similar to HCD2 RAT 3-HYDROXYACYL-COA DEHYDROGENASE TYPE II
					[R.norvegicus], H2-K region expressed gene 6, hydroxyacyl-Coenzyme A dehydrogenase, type II,
					hydroxyprostaglandin dehydrogenase 15 (NAD), hydroxysteroid (17-beta) dehydrogenase 10, hypothetical
1932	15175	NM_031682	bb		protein FLJ14431, retinal short-chain dehydrogenase/reductase retSDR3
1933	1004	NM_031685	v	golgi SNAP receptor complex member 2	golgi SNAP receptor complex member 2

	ROMAN	HOWOFOGATAÝ	exorajioxi	<b>南风景中海风景</b>	7.AUV. [Docket No. 44921-593900] Doc. No. 1793397.1
		Carbert Acel.	് മായില് പ്രസ്	Momologous Compain	Honologous Civstor Name
NO94 NO				ubiquitin A-52 residue	EST, Moderately similar to 165237 ubiquitin/ribosomal protein L40 - rat [R.norvegicus], Homo sapiens ubiquitin-like fusion protein mRNA, complete cds, RIKEN cDNA 0610006J14 gene, Rattus norvegicus RSD-7 mRNA, complete cds, ubiquitin A-52 residue ribosomal protein fusion
1934	19727	NM_031687	a,q,s	product 1	product 1 ESTs, Weakly similar to A39484
1935	20404	NM_031700	j.r.y	claudin 3	androgen-withdrawal apoptosis protein RVP1, prostatic - rat [R.norvegicus], claudin 12, claudin 3, expressed sequence Al182374
					ESTs, Weakly similar to A39484 androgen-withdrawal apoptosis protein RVP1, prostatic - rat [R.norvegicus], claudin 12, claudin 3, expressed
1935	20405	NM_031700	o,r	claudin 3	sequence Al182374
		Nua 024705	General	dihydropyrimidinase	PRO0195 protein, collapsin response mediator protein 5, collapsin response mediator protein-5; CRMP3-associated molecule, dihydropyrimidinase, dihydropyrimidinase-like 2, dihydropyrimidinase-related protein
1936	811 .	NM_031705	Garieras	<u>Ginyeropy</u> minumass	PRO0195 protein, collapsin response mediator protein 5, collapsin response mediator protein-5; CRMP3-associated molecule, dihydropyrimidinase, dihydropyrimidinase-like 2,
1936	812	NM_031705	o,v,bb,General	dihydropyrimidinase	dihydropyrimidinase-related protein
1937	162Ò4	NM 031706	g,bb		EST, Moderately similar to RSB_HUMAN 40S RIBOSOMAL PROTEIN S [H.sapiens], EST, Weakly similar to 40S RIBOSOMAL PROTEIN S8 [M.musculus], EST, Weakly similar to 40S RIBOSOMAL PROTEIN S8 [R.norvegicus], ESTs, Moderately similar to RSB_HUMAN 40S RIBOSOMAL PROTEIN S [H.sapiens], RIKEN cDNA 1110008P08 gene, ribosomal protein S8
					EST, Moderately similar to RSB_HUMAN 40S RIBOSOMAL PROTEIN S [H.sapiens], EST, Weakly similar to 40S RIBOSOMAL PROTEIN S8 [M.musculus], EST, Weakly similar to 40S RIBOSOMAL PROTEIN S8 [R.norvegicus], ESTs, Moderately similar to RSB_HUMAN 40S RIBOSOMAL PROTEIN S [H.sapiens], RIKEN cDNA 1110008P08 gene.
1937	16205	NM_031706	a.y		ribosomal protein S8 ESTs, Weakly similar to
4028	24084	NIA 031709			G100_HUMAN 110 KDA CELL MEMBRANE GLYCOPROTEIN [H.sapiens], cell membrane glycoprotein, 110000M(r) (surface antigen)
1938	24081	NM_031708	m		ESTs, Highly similar to R3HU12 ribosomal protein S12, cytosolic [H.sapiens], mitochondrial ribosomal
1939	16918	NM_031709	a,q		protein L50, ribosomal protein S12

TABLES	HUMAN	<u>kōworocnis</u> vx	. SKONATOK	•	. Ally, Docited No. 44921-5039WO Doc, No. 17939374
No. 14	ldentifier	ÇənBənk Acə <i>l</i> Rolfson ID'No.	Modal Goda	Homologous Gene Name	Komologovs Givetoř Namož
					ESTs, Weakly similar to T30259 multiple PDZ domain protein - mouse [M.musculus], ESTs, Weakly similar to T46612 multi PDZ domain protein 1 - rat [R.norvegicus], PDZ domain containing 1, channel-interacting PDZ domain protein, hypothetical protein FLJ22756, multiple PDZ domain protein, semaF cytoplasmic domain associated protein 3, solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 1, solute carrier family 9 (sodium/hydrogen
1940	1081	NM_031712	General	PDZ domain containing 1	exchanger), isoform 3 regulatory factor 2, syntaxin binding protein 4
					ESTs, Highly similar to \$71429 phosphofructokinase, muscle - rat [R.norvegicus], Mus musculus adult male stomach cDNA, RIKEN full-length enriched library, clone:2210403E17, full insert sequence, expressed sequence AA407869,
1941	1340	NM_031715	b,n,u,cc,General	phosphofructokinase, muscle	phosphofructokinase, liver, B-type, phosphofructokinase, muscle
				aldehyde dehydrogenase 3 family, member A2, aldehyde dehydrogenase	ESTs, Weakly similar to DHA4 RAT FATTY ALDEHYDE DEHYDROGENASE [R.norvegicus], RIKEN cDNA 1700001N19 gene, RIKEN cDNA 1700055N04 gene, aldehyde dehydrogenase 3 family, member A2, aldehyde dehydrogenase family 3, subfamily A2, expressed
1942	23884	NM_031731	j,s	family 3, subfamily A2	sequence Al848594 ESTs, Highly similar to N-
			·	UDP-Gal:betaGlcNAc beta	ACETYLLACTOSAMINE SYNTHASE [M.musculus], UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1, UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2, UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 3, UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4, UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, beta 1,4- galactosyltransferase,
				polypeptide 6, UDP- Gal:betaGlcNAc beta 1,4- galactosyltransferase,	polypeptide 5, UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6, UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase,
1943	10241	NM_031740	d	polypeptide 6	polypeptide 3 Mus musculus, clone MGC:8298
1944	1214	NM_031741	r	solute carrier family 2 (facilitated glucose transporter), member 5, solute carrier family 2 (facilitated glucose/fructose transporter), member 5	IMAGE:3593581, mRNA, complete cds, glucose transporter protein 11, solute carrier family 2 (facilitated glucose transporter), member 5, solute carrier family 2 (facilitated glucose transporter), member 9, solute carrier family 2 (facilitated glucose/fructose transporter), member 5

TABLES	e CHUIMAN)	HOMOLOGUEAN	NOTATIONS ·	The second	
, , , , , ,					Dog. No. 1793397.1
300, ID. No. 5	Kiennilier	Concont Acel Ref. Seq. (D No.:	Model Gode: *	Homologous Cono Namo: '', ' - '', '', ''', '''	Homologova Cluster Namo
					Mus musculus, clone MGC:8298
				celute engine family 2	IMAGE:3593581, mRNA, complete cds, glucose transporter protein 11,
				solute carrier family 2 (facilitated glucose	solute carrier family 2 (facilitated
				transporter), member 5,	glucose transporter), member 5, solute
		- X		solute carrier family 2	carrier family 2 (facilitated glucose
				(facilitated	transporter), member 9, solute carrier
				glucose/fructose	family 2 (facilitated glucose/fructose
1944	1215	NM_031741	r	transporter), member 5	transporter), member 5
					ESTs, Highly similar to C166_HUMAN CD166 ANTIGEN PRECURSOR
				•	[H.sapiens], Lutheran blood group
					(Auberger b antigen included),
					activated leucocyte cell adhesion
					molecule, activated leukocyte cell
					adhesion molecule, advanced
i					glycosylation end product-specific
			<b>.</b>		receptor, melanoma cell adhesion molecule
1945	20724	NM_031753	h		EST, Weakly similar to LIS1 MOUSE
				$\setminus$	PLATELET-ACTIVATING FACTOR
				<b>'</b>	ACETYLHYDROLASE IB ALPHA
ĺ					SUBUNIT (R.norvegicus), ESTs,
					Weakly similar to LIS1 MOUSE
1					PLATELET-ACTIVATING FACTOR
l					ACETYLHYDROLASE IB ALPHA
					SUBUNIT [R.norvegicus], ESTs, Weakly similar to LIS1_HUMAN
İ					PLATELET-ACTIVATING FACTOR
					ACETYLHYDROLASE IB ALPHA
					SUBUNIT [H.sapiens], F-box protein
					FBW7, KIAA0007 protein, U3 snoRNP-
					associated 55-kDa protein, f-box and
ļ				·	WD-40 domain protein 2, platelet-
					activating factor acetylhydrolase, isoform 1b, beta1 subunit, platelet-
					activating factor acetylhydrolase,
1946	20753	NM 031763	l <sub>n</sub>		Isoform Ib, alpha subunit (45kD)
1340	20133	1001100	<u>"</u>		EST, Weakly similar to LIS1 MOUSE
		i			PLATELET-ACTIVATING FACTOR
					ACETYLHYDROLASE IB ALPHA
					SUBUNIT [R.norvegicus], ESTs,
	<u> </u>			·	Weakly similar to LIS1 MOUSE
					PLATELET-ACTIVATING FACTOR ACETYLHYDROLASE IB ALPHA
					SUBUNIT [R.norvegicus], ESTs,
					Weakly similar to LIS1_HUMAN
		1		,	PLATÉLET-ACTIVATING FACTOR
ļ	1	1	1		ACETYLHYDROLASE IB ALPHA
j		1			SUBUNIT [H.sapiens], F-box protein
		1			FBW7, KIAA0007 protein, U3 snoRNP-associated 55-kDa protein, f-box and
1			1		WD-40 domain protein 2, platelet-
	1		ŀ	<b>!</b>	activating factor acetylhydrolase,
			1		isoform 1b, beta1 subunit, platelet-
					activating factor acetylhydrolase,
1946	20752	NM_031763	y		isoform lb, alpha subunit (45kD)
				Rab acceptor 1	
1947	14953	NM_031774	p A Connect	(prenylated)	quanine deaminase
1948	14184	NM_031776 NM_031776	t,General		quanine deaminase
1948	14185	TIMIN_031//6	d,o,t,General	<del>1</del>	Marine acquiriese

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Sog, (D)	Conflier	Gendenii Ace./ Roi. Seq. (10 No.		Homologova Cone. ComeM	Homolopous Civeter Namo
NOT	(25)(17)(3)				ESTs, Highly similar to NFL2 RAT NUCLEAR FACTOR ERYTHROID 2 RELATED FACTOR 2 [R.norvegicus], ESTs, Weakly similar to NFL2 RAT NUCLEAR FACTOR ERYTHROID 2 RELATED FACTOR 2 [R.norvegicus], nuclear factor (erythroid-derived 2)-like 2, nuclear, factor, erythroid derived 2,
1949	1169	NM_031789	с		like 2  defensin beta 1, defensin beta 2,
1950	16155	NM_031810	d,z		defensin beta 1, defensin beta 2, defensin beta 1, defensin beta 2,
1950	16156	NM_031810	đ		defensin, beta 1  EST, Weakly similar to T42627 ADP-
1951	17194	NM 031814	z	G protein-coupled receptor kinase-interactor 1	ribosylation factor-directed GTPase activating protein, isoform a - mouse [M.musculus], ESTs, Highly similar to T42627 ADP-ribosylation factor-directed GTPase activating protein, isoform a - mouse [M.musculus], G protein-coupled receptor kinase-interactor 1, G protein-coupled receptor kinase-interactor 2, Homo sapiens p95 paxillin-kinase linker mRNA, complete cds, RIKEN cDNA 1700030C10 gene, development and differentiation enhancing
					ESTs, Weakly similar to GBLP_HUMAN GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN 12.3 [R.norvegicus], Homo sapiens cDNA: FLJ21913 fis, clone HEP03888, Homo sapiens, clone IMAGE:3502107, mRNA, partial cds, RAE1 (RNA export 1, S.pombe) homolog, WD repeat domain 10, expressed sequence AI173248, expressed sequence AI504353, guanine nucleotide binding protein (G protein), beta polypeptide 2- like 1, guanine nucleotide binding protein, beta 2, related sequence 1, retinoblastoma binding protein 7, retinoblastoma-binding protein 7,
1952	17535	NM_031816	bb		transducin (beta)-like 2 ESTs, Highly similar to A57286 probable serine/threonine protein kinase [M.musculus], ESTs, Highly similar to SNK_RAT SERINE/THREONINE-PROTEIN KINASE SNK (SERUM INDUCIBLE KINASE) [R.norvegicus], ESTs, Weakly similar to SNK_RAT SERINE/THREONINE-PROTEIN KINASE SNK (SERUM INDUCIBLE KINASE) [R.norvegicus], cytokine- inducible kinase, serine/threonine kinase 18, serum-inducible kinase,
1953	2655	NM_031821	i,I,m,aa	serum-inducible kinase	tousled-like kinase 2 (Arabidopsis) flotillin 1, flotillin 2
1954	10167	NM_031830		lectin, galactose binding, soluble 3, lectin, galactoside-binding,	EST, Weakly similar to X-Ray Crystal Structure Of The Human Galectin-3 Carbohydrate Recognition Domain [H.sapiens], galectin-related inter-fiber
1955	22321	NM_031832	o,t,u,General	soluble, 3 (galectin 3)	protein

TABLE 8	S. CHUMAN	KONOFOGAE VX	ROTATIONS		, Ally, Docket No. 44921-5039W Doc. No. 1793397.1
939. ID No.' : :	(Manifflar	Cindent Aced Ref. Seg. 10 No.	Model Goden	Mamalagous Caio Namo : 47: - 43	Morrologous Gluster Name 🖧
					expressed sequence Al266890, expressed sequence Al853643, sulfotransferase family 1A, phenol-preferring, member 1, sulfotransferase family 4A, member 1, sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1, sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2, sulfotransferase family, cytosolic, 1A, phenol-preferring, cytosolic, 1A, phenol-preferring,
1956	4748	NM_031834	e,t		member 3
,					expressed sequence AI266890, expressed sequence AI853643, sulfotransferase family 1A, phenol-preferring, member 1, sulfotransferase family 4A, member 1, sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1, sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2, sulfotransferase family, cytosolic, 1A, phenol-preferring,
1956	4749	NM_031834	e,t		member 3
	7044				ESTs, Weakly similar to AGT2 RAT ALANINE—GLYOXYLATE AMINOTRANSFERASE 2 PRECURSOR [R.norvegicus], RIKEN cDNA 1300019H02 gene, RIKEN cDNA 2900006B13 gene, atanine-glyoxylate aminotransferase 2, alanine-glyoxylate aminotransferase 2-like 1, ornithine aminotransferase
1957	7914	NM_031835	e		c-fos induced growth factor (vascular endothelial growth factor D), vascular
1958	8385	NM_031836	h		endothelial growth factor, vascular endothelial growth factor B
1958	8384	NM_031836	h	· ·	c-fos induced growth factor (vascular endothelial growth factor D), vascular endothelial growth factor, vascular endothelial growth factor B
					EST, Highly similar to 40S RIBOSOMAL PROTEIN S2 [M.musculus], EST, Highly similar to 40S RIBOSOMAL PROTEIN S2 [R.norvegicus], EST, Moderately similar to S08228 ribosomal protein S2, cytosolic [H.sapiens], EST, Weakly similar to S08228 ribosomal protein S2, cytosolic [H.sapiens], ESTs, Highly similar to RS2_HUMAN 40S RIBOSOMAL PROTEIN S2 [H.sapiens], ESTs, Moderately similar to 40S RIBOSOMAL PROTEIN S2 [M.musculus], repeat family 3 gene,
1959	10268	NM 031838	la	l .	ribosomal protein S2

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90g.ID . No. ::	Maniffer	GenBenk Acel. Rel Seg: ID Ko:	Model (650)	Homologova Cana Mana Link the Coman	Homologous Cluster Name
					EST, Highly similar to 40S RIBOSOMAL PROTEIN S2 [M.musculus], EST, Highly similar to 40S RIBOSOMAL PROTEIN S2 [R.norvegicus], EST, Moderately similar to S08228 ribosomal protein S2, cytosolic [H.sapiens], EST, Weakly similar to S08228 ribosomal protein S2, cytosolic [H.sapiens], ESTs, Highly similar to RS2_HUMAN 40S RIBOSOMAL PROTEIN S2 [H.sapiens], ESTs, Moderately similar to 40S RIBOSOMAL PROTEIN S2 [M.musculus], repeat family 3 gene,
1959	10269	NM_031838	aa		ribosomal protein S2
					EST, Highly similar to 40S RIBOSOMAL PROTEIN S2 [M.musculus], EST, Highly similar to 40S RIBOSOMAL PROTEIN S2 [R.norvegicus], EST, Moderately similar to S08228 ribosomal protein S2, cytosolic [H.sapiens], EST, Weakly similar to S08228 ribosomal protein S2, cytosolic [H.sapiens], ESTs, Highly similar to RS2_HUMAN 40S RIBOSOMAL PROTEIN S2 [H.sapiens], ESTs, Moderately similar to 40S RIBOSOMAL PROTEIN S2 [M.musculus], repeat family 3 gene,
1959	10267	NM_031838	n,aa		ribosomal protein S2 expressed sequence AU022220,
					hypothetical protein FLJ21032, stearoyl-CoA desaturase (delta-9- desaturase), stearoyl-Coenzyme A desaturase 1, stearoyl-Coenzyme A desaturase 2, stearoyl-coenzyme A
1960	15077	NM_031841	b	ketohexokinase,	desaturase 3
1961	16726	NM_031855	x	ketohexokinase (fructokinase)	ketohexokinase, ketohexokinase (fructokinase)
4000	25802	NN 031060	a	(phosphorylase kinase, delta)	
1962	23002	NM_031969			Calmodulin III, ESTs, Highly similar to A Chain A, Calmodulin Complexed With Calmodulin-Binding Peptide From Smooth Muscle Myosin Light Chain Kinase (SUB 2-148 [H.sapiens], R.norvegicus CaMII retropseudogene (clone lambda SC27), RIKEN cDNA 2310068022 gene, calmodulin, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta),
				calmodulin 1, calmodulin 1 (phosphorylase kinase,	catmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin 3, calmodulin-like 3
1962	19191	NM_031969	lc	delta)	caimoduin 3, caimoduin-like 3

TABLES	INCMUES:	HOMOLOGUEAN	(NOTATIONS) ·		. · ATTY. Docket No. 44924-6033W0			
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Seq. ID - No. 4: 1	10:0110:07	Cordenk Acci <sup>r</sup> Roi Sogid Noi	Model Code	Handegous Care	Honologous Cirelog Name			
1962	19195	NM_031969	r	calmodulin 1, calmodulin 1 (phosphorylase kinase, delta)	Calmodulin III, ESTs, Highly similar to A Chain A, Calmodulin Complexed With Calmodulin-Binding Peptide From Smooth Muscle Myosin Light Chain Kinase (SUB 2-148 [H.sapiens], R.norvegicus CaMII retropseudogene (clone lambda SC27), RIKEN cDNA 2310068022 gene, calmodulin, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin 3, calmodulin-like 3			
1962	19190	NM_031969	P	calmodulin 1, calmodulin 1 (phosphorylase kinase, delta)	Calmodulin III, ESTs, Highly similar to A Chain A, Calmodulin Complexed With Calmodulin-Binding Peptide From Smooth Muscle Myosin Light Chain Kinase (SUB 2-148 [H.sapiens], R.norvegicus CaMII retropseudogene (clone lambda SC27), RIKEN cDNA 2310068022 gene, calmodulin, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin 3, calmodulin 1, calmodulin 3, calmodulin 1, calmodulin 2			
1963	17734	NM_031970	v,General		EST, Weakly similar to HHHU27 heat shock protein 27 [H.sapiens], ESTs, Moderately similar to HHHU27 heat shock protein 27 [H.sapiens], crystallin, alpha C, heat shock 27kD protein 1, heat shock 27kD protein 3			
1964	1475	NM_031971	v	heat shock 70kD protein 1B, heat shock protein, 70 kDa 1	ESTs, Weakly similar to BCHUIA S- 100 protein alpha chain [H.sapiens], ESTs, Weakly similar to S10A MOUSE S-100 PROTEIN, ALPHA CHAIN [M.musculus], Homo sapiens cDNA FLJ10018 fis, clone HEMBA1000531, RIKEN cDNA B230217N24 gene, S100 calcium binding protein A1, S100 calcium binding protein A1, S100 calcium-binding protein A1, S100 calcium-binding protein A11 (calgizzarin), S100 calcium-binding protein P, expressed sequence Al266795, heat shock 70kD protein 1A, heat shock 70kD protein 1B			
1965	15470	NM_031978	f		proteasome (prosome, macropain) 26S subunit, non-ATPase, 1			
1966	18502	NM 031984	c .	calbindin 1, (28kD), calbindin-28K	ESTs, Moderately similar to CALBINDIN [M.musculus], calbindin 1, (28kD), calbindin-28K			

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900+ID. Yo.	lo alloca	ConBank Aced Ref. Seg. (D.No.	Model Code	Homologous Garo	Doc. No. 1799997.( Moniclogious Gluster Manne
				waxas-	ESTs, Highly similar to APB1 RAT AMYLOID BETA A4 PRECURSOR PROTEIN-BINDING FAMILY A MEMBER 1 [R.norvegicus], Mus musculus, Similar to hypothetical protein, clone MGC:11704 IMAGE:3964815, mRNA, complete cds, RIKEN cDNA 2310008D10 gene, amyloid beta (A4) precursor protein- binding, family A, APBA1: amyloid beta (A4) precursor protein-binding, family A, member 1 (X11), amyloid beta (A4) precursor protein-binding, family A, member 1 (X11), amyloid beta (A4) precursor protein-binding, family A, member 3, syndecan binding protein, syndecan binding protein
1967	19768	NM_031986	v,aa,General		(syntenin), syntenin-2 protein ESTs, Weakly similar to T42724 p190- B protein - mouse (M.musculus), PTPL1-associated RhoGAP 1, RIKEN cDNA 1700026N20 gene, RIKEN cDNA 1700112L09 gene, chimerin (chimaerin) 2, minor histocompatibility antigen HA-1, oligophrenin 1, mo
1968	723	NM_032084	n		GTPase activating protein 5 hypothetical protein FLJ20207.
1969	17935	NM_032615	a	membrane interacting protein of RGS16	membrane interacting protein of RGS16
1970	16831	NM_033095	n		
1971	25468	NM_033234	C,Z		
1971	25469	NM_033234	С		
1971	17832	NM_033234	с,р	hemoglobin beta chain complex, hemoglobin, beta hemoglobin beta chain	-
1971	17829	NM 033234	c,z	complex, hemoglobin, beta	
				, , , , , , , , , , , , , , , , , , , ,	ESTs, Highly similar to LDHH_HUMAN L-LACTATE DEHYDROGENASE H CHAIN [H.sapiens], Lactate dehydrogenease B, RIKEN cDNA 1700124B08 gene, lactate dehydrogenase 2, B chain, lactate dehydrogenase B, malate dehydrogenase 1, NAD (soluble),
1972	4723	NM_033235	z		malate dehydrogenase, soluble
				glyoxylase 2, hydroxyacyl	Mus musculus, Similar to hydroxyacyl glutathione hydrolase, clone MGC:6697 IMAGE:3583919, mRNA, complete cds, RIKEN cDNA 1500017E18 gene, RIKEN cDNA 2810014I23 gene, RIKEN cDNA C330022E15 gene, hydroxyacyl glutathione hydrolase, hypothetical protein MGC2605, protein expressed
1973	1409	NM 033349	p.General	glutathione hydrolase	in thyroid
· · · · · _	1	000040	15,00110101	Siemmonio rijuroluso	

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Scop.(ID) No.	leballor	ConBook Acc./ Ref. Soq. ID No:	Modal Goda	Mamajogora Gara	Homologous Guster Namo 🥴 🤄
					ESTs, Weakly similar to T30259 multiple PDZ domain protein - mouse [M.musculus], ESTs, Weakly similar to T46612 multi PDZ domain protein 1 - rat [R.norvegicus], PDZ domain containing 1, channel-interacting PDZ domain protein, hypothetical protein FLJ22756, multiple PDZ domain protein, semaF cytoplasmic domain protein, semaF cytoplasmic domain associated protein 3, solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 1, solute carrier family 9 (sodium/hydrogen
1974	19998	NM_033352	General	PDZ domain containing 1	exchanger), isoform 3 regulatory factor 2, syntaxin binding protein 4
			·		ESTs, Moderately similar to S47073 finger protein HZF2, Krueppel-related [H.sapiens], ESTs, Moderately similar to T12489 hypothetical protein DKFZp572P0920.1 [H.sapiens], ESTs, Weakly similar to TC17 MOUSE TRANSCRIPTION FACTOR 17 [M.musculus], ESTs, Weakly similar to Z184 HUMAN ZINC FINGER PROTEIN 184 [H.sapiens], expressed sequence Al875089, transcription factor 17, transcription factor 17-like 1,
1975	1410	NM_052798	d	zinc finger protein 354A	transcription factor 17-like 2
				cysteine dioxygenase 1, cytosolic, cysteine	RIKEN cDNA 2900092E17 gene, cysteine dioxygenase 1, cytosolic,
	15028	NM_052809		dioxygenase, type I pyruvate kinase 3,	cysteine dioxygenase, type I
1977	5176	NM_053297	u	pyruvate kinase, muscle	EST, Moderately similar to S12583
1079	7660	ANA 052200	:	dichlerific shipship D	polyubiquitin 4 - mouse [M.musculus], Homo sapiens UBBP2 pseudogene for ubiquitin UBB, RIKEN cDNA 2700054004 gene, diubiquitin, expressed sequence Al194771, expressed sequence AL033289,
1978	7660	NM_053299	<u> </u>	diubiquitin, ubiquitin D	ubiquitin B, ubiquitin C CAT56 protein, EST, Weakly similar to
		•		Homer, neuronal immediate early gene, 3,	A28996 proline-rich protein M14 precursor - mouse [M.musculus], EST, Weakly similar to JE0291 FB19 protein [H.sapiens], Homer, neuronal immediate early gene, 1B, RuvB-like protein 1, homer, neuronal immediate early gene, 1, homer, neuronal immediate early gene, 2, proline rich
1979	5117	NM_053310	p	homer, neuronal immediate early gene, 3	protein, proline rich protein 2, protein phosphatase 1, regulatory subunit 10
	17473		a,v	dynein, cytoplasmic, light chain 1, dynein, cytoplasmic, light polypeptide	ESTs, Moderately similar to protein inhibitor of nitric oxide synthase [M.musculus], RIKEN cDNA 6720463E02 gene, Rattus norvegicus dynein light chain-2 (Dlc2) mRNA, complete cds, dynein, cytoplasmic, light chain 1, dynein, cytoplasmic, light polypeptide
1301	11713	1414 0000 13		insulin-like growth factor	polypapida
I				binding protein, acid labile	

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				insulin-like growth factor binding protein, acid labile subunit	ESTs, Weakly similar to ALS RAT INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN COMPLEX ACID LABILE CHAIN PRECURSOR [R.norvegicus], ESTs, Weakly similar to JC6128 insulin-like growth factor binding comptex acid labile chain-mouse [M.musculus], ESTs, Weakly similar to membrane glycoprotein [M.musculus], KIAA0644 gene product, glycoprotein 1a, alpha polypeptide, hypothetical protein FLJ20156, insulin-like growth factor binding protein, acid labile subunit, nogo receptor, reticulon 4 receptor, toll-like receptor 6, tumor endothelial marker 5 precursor
1982	21977	NM_053329	<u>y</u>	SUOUNIL	marker 5 precursor EST, Moderately similar to 2113200B
1983	14926	NM_053330	f	ribosomal protein L21	ribosomal protein L21 [H.sapiens], EST, Moderately similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], EST, Weakly similar to 2113200B ribosomal protein L21 [H.sapiens], EST, Weakly similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], EST, Weakly similar to RL21_HUMAN 60S RIBOSOMAL PROTEIN L21 [H.sapiens], ESTs, Moderately similar to RL21 RAT 60S RIBOSOMAL PROTEIN L21 [R.norvegicus], RIKEN cDNA 2700085M18 gene, ribosomal protein L21
					EST, Moderately similar to 2113200B ribosomal protein L21 [H.sapiens],
1983	14929	NM_053330	e,General	ribosomal protein L21	EST, Moderately similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], EST, Weakly similar to 2113200B ribosomal protein L21 [H.sapiens], EST, Weakly similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], EST, Weakly similar to RL21_HUMAN 60S RIBOSOMAL PROTEIN L21 [H.sapiens], ESTs, Moderately similar to RL21 RAT 60S RIBOSOMAL PROTEIN L21 [R.norvegicus], RIKEN cDNA 2700085M18 gene, ribosomal protein L21
1984	16407	NM 053332	C,e	cubilin (intrinsic factor-cobalamin receptor)	DNA segment, Chr 2, Wayne State University 88, expressed, EST, Weakly similar to T09456 intrinsic factor-B12 receptor Cubilin precursor [H.sapiens], ESTs, Moderately similar to T09456 intrinsic factor-B12 receptor Cubilin precursor [H.sapiens], Homo saplens cDNA FLJ12558 fis, clone NT2RM4000787, bone morphogenetic protein 1, cubilin (intrinsic factor-cobalamin receptor), expressed sequence AL022750, platelet-derived growth factor, C polypeptide, tolloid-like, tolloid-like 2, tumor necrosis factor induced protein 6, tumor necrosis factor, alpha-induced protein 6

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Seq. (D.)	leeniner.	Genden't Acc./ Ref. Seg. 10 No.	Modal Gods	Core exegelone Core	Homologous Auster Namo-
	15790	NM 053341	j,×	chromosome 19 open reading frame 3, regulator of G-protein signaling 19 interacting protein 1	chromosome 19 open reading frame 3, hypothetical protein FLJ20075
1985	15790	140 033341	<u></u>	interacting protein 1	ESTs, Weakly similar to CGHU2S collagen alpha 2(I) chain precursor [H.sapiens], KIAA1026 protein, RIKEN cDNA 1110030G05 gene, RIKEN cDNA 9030409G11 gene, collagen, type I, alpha 1, collagen, type I, alpha 2, collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), hypothetical protein FLJ20654, nischarin,
1986	6154	NM_053356	P	collagen, type I, alpha 2, procollagen, type I, alpha 2	procollagen, type I, alpha 1, procollagen, type I, alpha 2, procollagen, type II, alpha 1
1987	9215	NM_053374			interleukin 18 binding protein ESTs, Weakly similar to NPT2 RAT RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 [R.norvegicus], ESTs, Weakly similar to NPT2_HUMAN RENAL SODIUM- DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 [H.sapiens], Homo sapiens, Similar to solute carrier family 34 (sodium phosphate), member 1, clone MGC:18179 IMAGE:4155326, mRNA, complete cds, Rattus norvegicus mRNA for NaPi-2 alpha, complete cds, Solute carrier family 17 (sodium/hydrogen exchanger), member 2, expressed sequence Al649385, solute carrier family 34 (sodium phosphate), member 1, solute carrier family 34 (sodium phosphate),
1988	6416	NM_053380	General	small muscle protein, X-	member 2
1989	19113	NM_053395	a Consel	linked	small muscle protein, X-linked ESTs, Highly similar to FMO3_HUMAN DIMETHYLANILINE MONOOXYGENASE [H.sapiens], Flavin-containing monooxygenase 1, Homo sapiens DNA sequence from PAC 127D3 on chromosome 1q23-25. Contains FMO2 and FMO3 genes for Flavin-containing Monooxygenase 2 and Flavin-containing Monooxygenase 3 (Dimethylaniline Monooxygenase 3 (Dimethylaniline Monooxygenase (N-Oxide 3, EC1.14.13.8, Dimethylaniline Oxidase 3, FMO II, FMO 3), and a gene for another, unknown, Flavin- containing Monooxygenase family protein. Contains ESTs and GSSs, flavin containing monooxygenase 1, flavin containing monooxygenase 2, flavin containing monooxygenase 3, treatbetical protein BD043E5.
1990	2242	NM_053433	n,General		hypothetical protein PRO1257 RIKEN cDNA 1700065B19 gene, RIKEN cDNA 5730408C10 gene, zinc
1991	5561	NM_053438	у		finger protein 103, zinc finger protein homologous to Zfp103 in mouse

		HOWOFOGREY		A	- ; Ally, Dockel No. 44991-6999W0 Dock No. 1799997.1
Seq. (D. No. 12	Mentifier	GenBank Acc./ Rol. Seq. ID No.		Honologous Ceio Namo — + + - + 1 iii -	Nemologous Cluster Name
					ESTs, Highly similar to RAB7 RAT RAS-RELATED PROTEIN RAB-7 [R.norvegicus], RAB7, member RAS oncogene family, RAN, member RAS oncogene family, RIKEN cDNA
1992	14670	NM_053439	n,General	stathmin-like 2,	1700009N14 gene   stathmin-like 2, stathmin-like 4,
1993	17102	NM_053440	w	superiorcervical ganglia, neural specific 10	superiorcervical ganglia, neural specific 10  ESTs, Weakly similar to 1615347A ras
		,			p21 GTPase activating protein [M.musculus], KIAA1938 protein, Mus musculus, Similar to RAS p21 protein activator, clone MGC:7759 [MAGE:3498774, mRNA, complete cds, RAS protein activator like 2, Rattus norvegicus DOC2/DAB2 interactive protein mRNA, complete cds, expressed sequence BB079060,
1994	24762	NM_053442	General		hypothetical protein FLJ21438
·					ESTs, Moderately similar to RGS8 RAT REGULATOR OF G-PROTEIN SIGNALING 8 [R.norvegicus], regulator of G-protein signaling 18, regulator of G-protein signaling 2, regulator of G-protein signaling 13, regulator of G-protein signalling 13, regulator of G-protein signalling 2, 24kD, regulator of G-protein signalling
1995	8085	NM_053453	General		8 NEFA precursor, expressed sequence
1996	4622	NM_053463	d	·	Al607786, nucleobindin, nucleobindin 1, nucleobindin 2
				cytochrome c oxidase subunit IV isoform 2, cytochrome c oxidase,	EST, Weakly similar to COX4_HUMAN CYTOCHROME C OXIDASE POLYPEPTIDE IV PRECURSO [H.sapiens], cytochrome c oxidase subunit IV, cytochrome c oxidase subunit IV isoform 2, cytochrome c oxidase, subunit IV, cytochrome c oxidase, subunit IVa, cytochrome c oxidase, subunit IVb, expressed
1997	21866	NM_053472	р	subunit IVb	sequence AL024441 protein tyrosine phosphatase 4a1,
1998	9573	NM_053475	ħ		protein tyrosine phosphatase 4a2, protein tyrosine phosphatase type IVA, member 1, protein tyrosine phosphatase type IVA, member 2, protein tyrosine phosphatase type IVA, member 3
1999	16137	NM 053480	k		DNA polymerase alpha 2, 68 kDa, Mus musculus, Similar to DNA polymerase alpha 2, 68 kDa, clone MGC:11533 IMAGE:3602559, mRNA, complete cds, expressed sequence AI573378, polymerase (DNA-directed), alpha (70kD)
					ESTs, Weakly similar to A Chain A, Importin Alpha, Mouse [M.musculus], expressed sequence AW146299, karyopherin (Importin) alpha 2, karyopherin alpha 2 (RAG cohort 1,
2000	15556	NM_053483	у	· · · · · · · · · · · · · · · · · · ·	importin alpha 1) EST, Moderately similar to
2001	16394	NM_053485	General		CALCYCLIN [R.norvegicus], S100 calcium-binding protein A6 (calcyclin), calcium binding protein A6 (calcyclin)

TABLES	e CHUMAN	Hoxorognis vy	IXOVATIONS:	**	Ally, Docket No. 44921-5939WG Doc. No. 1755597.1
Seq. [D.		ConBank Accel :	Model Gode iv	Manologous Cano	Hamologous Chalar Nama X
2002	4290	NM_053487	j.y		peroxisomal biogenesis factor 11A, peroxisomal biogenesis factor 11B
					EST, Moderately similar to Y025_HUMAN HYPOTHETICAL PROTEIN KIAA0025 [H.sapiens], RIKEN cDNA 5031400M07 gene, homocysteine-inducible, endoplasmic
2004	18826	NM 053523	d		reticulum stress-inducible, ubiquitin- like domain member 1, hypothetical protein FLJ22313
2004	10020				DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide, Y chromosome, DNA segment, Chr 1, Pasteur Institute 1, ESTs, Moderately similar to DDXY_HUMAN DEAD BOX PROTEIN 3, Y-CHROMOSOMAL [H.sapiens],
	·		. *	. ,	KIAA0801 gene product, RNA helicase, Rattus norvegicus RNA helicase with arginine-serine-rich domain mRNA, complete cds, expressed sequence Al324246, expressed sequence Al325430,
2005	7764	NM_053525	aa		expressed sequence C86129 Lysosomal-associated multispanning
2006	14199	NM_053538	c		membrane protein-5, lysosomal- associated protein transmembrane 5
2007	1058	NM_053539	c,d		DNA segment, Chr 17, human
a ga a set		• .		·	D6S81E 1, EST, Weakly similar to HE47 RAT PROBABLE ATP-DEPENDENT RNA HELICASE P47 [R.norvegicus], HLA-B associated transcript 1, KIAA0111 gene product, Mus musculus, clone MGC:6664 IMAGE:3498954, mRNA, complete cds, RIKEN cDNA 2610307C23 gene, eukaryotic translation initiation factor 4A, isoform 2, eukaryotic translation initiation factor 4A1, eukaryotic translation initiation factor 4A2, nuclear RNA helicase, DECD variant of DEAD
2008	4327	NM_053563	General		box family ESTs, Weakly similar to JE0096
2009	1342	NM 053573	h &		myocilin - mouse [M.musculus], Homo sapiens NOE3-4 (NOE3) mRNA, complete cds, alternatively spliced, expressed sequence AW742568, olfactomedin related ER localized protein
2009				selenium glutathione peroxidase, acidic calcium- independent phospholipase A2),	ESTs, Moderately similar to AOP2_HUMAN ANTIOXIDANT PROTEIN 2 [H.sapiens], anti-oxidant protein 2 (non-selenium glutathione peroxidase, acidic calcium- independent phospholipase A2),
2010	19254 19253	NM_053576	h,s h	selenium glutathione	peroxiredoxin 5 ESTS, Moderately similar to AOP2_HUMAN ANTIOXIDANT PROTEIN 2 [H.sapiens], anti-oxidant protein 2 (non-selenium glutathione peroxidase, acidic calcium- independent phospholipase A2), peroxiredoxin 5

TABLES	MACHUMAN	HOWOROGALEVI	INOTATIONS:		: Ally, Docket No. 44921-5039W6
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					ESTs, Highly similar to JC7189 tubulointerstitial nephritis antigen [H.sapiens], P3ECSL, cathepsin B, lipocalin 7, tubulointerstitial nephritis
2011	3049	NM_053582	p,cc,General		antigen
2011	3050	NM_053582	o,General		ESTs, Highly similar to JC7189 tubulointerstitial nephritis antigen [H.sapiens], P3ECSL, cathepsin B, lipocalin 7, tubulointerstitial nephritis antigen
2012	21423	NM 053586	s,y		EST, Moderately similar to CYTOCHROME C OXIDASE POLYPEPTIDE VB PRECURSOR [R.norvegicus], cytochrome c oxidase subunit Vb, cytochrome c oxidase, subunit Vb
2013	21445	NM_053587	t,v		
					ESTs, Weakly similar to MDP1 MOUSE MICROSOMAL DIPEPTIDASE PRECURSOR [M.musculus], ESTs, Weakly similar to S33757 membrane dipeptidase [M.musculus], RIKEN cDNA 1700018F16 gene, dipeptidase 1 (renal), putative dipeptidase, putative
2014	20871	NM 053591	l,i		metallopeptidase (family M19)
2014	20870	NM 053591			ESTs, Weakly similar to MDP1 MOUSE MICROSOMAL DIPEPTIDASE PRECURSOR [M.musculus], ESTs, Weakly similar to S33757 membrane dipeptidase [M.musculus], RIKEN cDNA 1700018F16 gene, dipeptidase 1 (renal), putative dipeptidase, putative metallopeptidase (family M19)
					protein tyrosine phosphatase, receptor
2015	21709	NM_053594	d .		type, R KIAA0604 gene product, endothelin converting enzyme 1, endothelin converting enzyme-like 1, expressed sequence AW322500, expressed sequence BB127715, mel transforming oncogene-like 1, membrane metallo endopeptidase
2016	21708	NM_053596	z		KIAA0604 gene product, endothelin converting enzyme 1, endothelin converting enzyme-like 1, expressed sequence AW322500, expressed sequence BB127715, mel transforming oncogene-like 1, membrane metallo endopeptidase
				nuclear proten 1, p8	COT- Marthuring
2017	1597	NM_053611	t	protein (candidate of metastasis 1) Bardet-Biedl syndrome 2,	ESTs, Weakly similar to Gene product with similarity to Rat P8 [H.sapiens]
				Bardet-Biedl syndrome 2,	
2018	5565	NM_053618	General	(human) fatty acid-Coenzyme A ligase, long chain 4, fatty- acid-Coenzyme A ligase,	
2019	13004	NM_053623	t	long-chain 4	

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Seq.(D)	e rappida		Model Gode	CONTRACTOR EUROPOLICA CONTEXT	Homologious Cluster Namo ::
					D-amino acid oxidase, D-amino-acid oxidase, D-aspartate oxidase, EST, Weakly similar to OXDA RAT D- AMINO ACID OXIDASE [R.norvegicus], ESTs, Highly similar to
2020	1127	NM 053626	a		OXDA RAT D-AMINO ACID OXIDASE [R.norvegicus], RIKEN cDNA 5330420D20 gene, RIKEN cDNA 5730402C02 gene
				beta-carotene 15, 15'- dioxygenase, beta- carotene 15,15'-	EST, Moderately similar to 0806162D protein COII [M.musculus], EST, Weakly similar to 810024D cytochrome
2021	18644	NM_053648	n	dioxygenase	oxidase II [H.sapiens] c-fos induced growth factor, c-fos induced growth factor (vascular endothelial growth factor D), vascular
2022	21637	NM_053653	р		endothelial growth factor, vascular endothelial growth factor B, vascular endothelial growth factor C
4				·	ESTs, Highly similar to CG1C RAT G1/S-SPECIFIC CYCLIN C [R.norvegicus], Homo sapiens, clone IMAGE:3537447, mRNA, partial cds, RIKEN cDNA 1810009010 gene, cyclin C, cyclin K, cyclin L, cyclin L
2023	3454	NM_053662	сс		ania-6a, cyclin T2 with Glu/Asp-rich carboxy-terminal domain, 2, Cbp/p300-interacting
				·	transactivator, with Glu/Asp-rich carboxy-terminal domain, 4, ESTs, Weakly similar to MRG1_HUMAN MSG-RELATED PROTEIN 1 [H.sapiens], expressed sequence
2024	16121	NM_053698	h.j.z		AW742964 with Glu/Asp-rich carboxy-terminal domain, 2, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4, ESTs, Weakly similar to MRG1_HUMAN MSG-RELATED PROTEIN 1
2024	16122	NM_053698	h,j,z		[H.sapiens], expressed sequence AW742964
2025	25379	NM_053713	General		ESTs, Moderately similar to CPBP RAT CORE PROMOTER ELEMENT- BINDING PROTEIN [R.norvegicus], Kruppel-like factor 4 (gut), RIKEN cDNA 7420700M05 gene, core
2025 2026	13622 15376	NM_053713 NM_053747	General h	ubiquilin 1	promoter element binding protein
2027	1218	NM_053748	b	1	expressed sequence C86324, hypothetical protein FLJ23590
2028	1137	NM 053763	v		cytochrome P450, 40 (25- hydroxyvitamin D3 1 alpha- hydroxylase), cytochrome P450, subfamily XXVIIB (25-hydroxyvitamin D-1-alpha-hydroxylase), polypeptide 1
2029	15996	NM_053769	cc	dual specificity phosphatase 1, protein tyrosine phosphatase, non- receptor type 16	MKP-1 like protein tyrosine phosphatase, dual specificity phosphatase 1, dual specificity phosphatase 13, dual specificity phosphatase 14, dual specificity phosphatase 2, expressed sequence

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		KOMOTOGAE AV	<u> </u>		Ally, Decket No. 44921-5339WC Dec. No. 1793397.
Sog.ID No. :	liculliler:	ConPent Acel Rol-Sog ID No.	Model Code	Namolegous Cono Namolegous Cono	Komologove Cheter Name
2030	8652	NM_053774	9	ubiquitin specific protease	KIAA1453 protein, RIKEN cDNA 4930511011 gene, expressed sequence AA409661, ubiquitin specific protease 2, ubiquitin specific protease 8
2031	14664	NM_053806	General		
2032	4361	NM_053812	k		B cell lymphoma 2 like, BCL2- antagonist/kitler 1, BCL2-like 1, Bcl-w protein, Bcl2-like, Mus musculus N- BAK1 (Bak1) mRNA, complete cds, alternatively spliced, RIKEN cDNA 0610031G08 gene
				·	EST, Moderately similar to TIM1 RAT METALLOPROTEINASE INHIBITOR 1 PRECURSOR [R.norvegicus], EST, Weakly similar to TIM1 RAT METALLOPROTEINASE INHIBITOR 1 PRECURSOR [R.norvegicus], tissue inhibitor of metalloproteinase, tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity,
2034	15002	NM 053819	b,x,bb,General		collagenase inhibitor)
2034	15003	NM 053819	b,l,x,bb,General		EST, Moderately similar to TIM1 RAT METALLOPROTEINASE INHIBITOR 1 PRECURSOR [R.norvegicus], EST, Weakly similar to TIM1 RAT METALLOPROTEINASE INHIBITOR 1 PRECURSOR [R.norvegicus], tissue inhibitor of metalloproteinase, tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor)
2035	16173	NM 053822	t		
2036	17154	NM 053835	j,z		
2037	20868	NM 053843	1,4		
2037	714	NM_053843	у		ESTs, Highly similar to CNT1_HUMAN SODIUM/NUCLEOSIDE COTRANSPORTER 1 [H.sapiens], ESTs, Moderately similar to A54892 Na+-dependent nucleoside transport protein cNT1 - rat [R.norvegicus]
2041	19781	NM_053883	Ь	*	ESTs, Moderately similar to DUS6 RAT DUAL SPECIFICITY PROTEIN PHOSPHATASE 6 [R.norvegicus], ESTs, Weakly similar to DUS6 RAT DUAL SPECIFICITY PROTEIN PHOSPHATASE 6 [R.norvegicus], dual specificity phosphatase 10, dual specificity phosphatase 13, dual specificity phosphatase 14, dual specificity phosphatase 6, dual specificity phosphatase 9, expressed sequence BB104621, mitogen- activated protein kinase phosphatase x, protein tyrosine phosphatase, non- neceptor type 16

TABLE	E HIUMAN	(HOMOLOGUE A)	NOTATIONS •	A second of the	. :: Atty, Docket No. 44921-5189W6
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Scq. [D. No.:	lieniller	ConPant Acc <i>i.</i> Ref. Sec. ID No.	Model Code	Honologous Comb	
2041	19780	NM_053883	Ь		ESTs, Moderately similar to DUS6 RAT DUAL SPECIFICITY PROTEIN PHOSPHATASE 6 [R. norvegicus], ESTs, Weakly similar to DUS6 RAT DUAL SPECIFICITY PROTEIN PHOSPHATASE 6 [R. norvegicus], dual specificity phosphatase 10, dual specificity phosphatase 13, dual specificity phosphatase 14, dual specificity phosphatase 6, dual specificity phosphatase 9, expressed sequence BB104621, mitogen- activated protein kinase phosphatase x, protein tyrosine phosphatase, non- receptor type 16
2042	1454	NM_053887	General		[50= 14
2043	1660	NM_053891	g		ESTs, Moderately similar to CD5R MOUSE CYCLIN-DEPENDENT KINASE 5 ACTIVATOR 1 PRECURSOR [R.norvegicus], cyclindependent kinase 5, regulatory subunit (p35), cyclin-dependent kinase 5, regulatory subunit 1 (p35), cyclindependent kinase 5, regulatory subunit 2 (p39)
2044	712	NM_053896	k		
2045	753_	NM_053897	k		coagulation factor II (thrombin) receptor-like 1, coagulation factor II (thrombin) receptor-like 2
					RIKEN cDNA 4432411A05 gene,
2046	794	NM_053902	General		kynureninase (L-kynurenine hydrolase) ESTs, Weakly similar to
2047	17937	NM_053911	f		ARNO_HUMAN ARF NUCLEOTIDE- BINDING SITE OPENER [H.sapiens]
					DNA segment, Chr 10, ERATO Dol 398, expressed, ESTs, Weakly similar to PTNL RAT PROTEIN TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 21 [R.norvegicus], Homo saplens, Similar to erythrocyte membrane protein band 4.1-like 3, clone MGC:12343 IMAGE:4044866, mRNA, complete cds, Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330430110, full insert sequence, Rattus norvegicus protein tyrosine phosphatase 2E (PTP2E) mRNA, complete cds, erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked), erythrocyte membrane protein band 4.1-like 1, erythrocyte membrane protein band 4.1-like 3, erythrocyte protein band 4.1-like 1, erythrocyte protein band 4.1-like 1, erythrocyte
2048	8188	NM_053927	General		protein band 4.1-like 3, protein tyrosine phosphatase, non-receptor type 21

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Seq. (D. No		Consont Ace // Rol Sog ID Not	Modal Goda :	Hamologous Gano 🔅 Namo 👵 💮 😁	Homologous Cheter Name
		,			endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor 4, endothelial differentiation, lysophosphatidic acid G protein-coupled receptor 7, endothelial differentiation, lysophosphatidic acid G protein-coupled receptor, 2, endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 4, endothelial
2050	1628	NM_053936	h		differentiation, tysophosphatidic acid G protein-coupled receptor, 7, putative G protein-coupled receptor snGPCR32
2051	13954	NM_053955	General		ESTs, Highly similar to B46290 mu- crystallin [H.sapiens], crystallin, mu
2052	408	NM_053961	General		
					DNA segment, Chr 9, ERATO Doi 85, expressed, Homo sapiens aconitase precursor (ACON) mRNA, nuclear gene encoding mitochondrial protein, partial cds, RIKEN cDNA 5031409G22 gene, aconitase 1, aconitase 1, soluble, aconitase 2, mitochondrial, iron-responsive element-binding
2052	19991	NM_053961·	a		protein Homo sapiens hepatocellular
2052	16190	NM_053961	q		carcinoma-associated antigen 64 (HCA64) mRNA, complete cds, RIKEN cDNA 1300014E15 gene, RIKEN cDNA 1300017C12 gene, RIKEN cDNA 1810022C23 gene, RIKEN cDNA 2610009M20 gene, RIKEN cDNA 4933417A18 gene, enoyl Coenzyme A hydratase, short chain, 1, mitochondrial, peroxisomal D3,D2-enoyl-CoA Isomerase, peroxisomal delta3, delta2-enoyl-Coenzyme A isomerase
2052	21355	NM_053961	j,l,y,z		EST, Moderately similar to I51803
2055	15136	NM_053971	aa		TAXREB107 [H.sapiens], ESTs, Highly similar to I51803 TAXREB107 [H.sapiens], ribosomal protein L6 EST, Moderately similar to I51803 TAXREB107 [H.sapiens], ESTs, Highly similar to I51803 TAXREB107 [H.sapiens], ESTs, Highly similar to I51803 TAXREB107
2055	15135	NM_053971	d		[H.sapiens], ribosomal protein L6 ESTs, Highly similar to A26411 translation initiation factor eIF-4E [H.sapiens], RIKEN cDNA 2700069E09 gene, eukaryotic
2056	1764	NM_053974	h		translation initiation factor 4E ADP-ribosylation factor related protein
2057	1292	NM_053980	l .		1, RIKEN cDNA 1500006i01 gene
	4540-				EST, Highly similar to 40S RIBOSOMAL PROTEIN S15A [R.norvegicus], EST, Weakly similar to RS1A_HUMAN 40S RIBOSOMAL PROTEIN S15A [R.norvegicus], ESTs, Weakly similar to RS1A_HUMAN 40S RIBOSOMAL PROTEIN S15A
2058	15468	NM_053982	q		[H.sapiens] ESTs, Highly similar to HISTONE H3.3 [R.norvegicus], H3 histone, family 3A.
2059	15642	NM_053985	General		H3 histone, family 3B, H3 histone, family 3B (H3.3B)

TABLES	REMUMAN	<u>koworocats</u> y	MOTATIONS.		Any, Docket No. 44921-518900 Doc, No. 1798897,
939, ID No.	ldentiller	ConBenk Ace <i>l</i> Rol Sog. ID No.'	Modal Goda	Homologous Comp	Homelegous Cluster Name
					CD36 antigen (collagen type I receptor, thrombospondin receptor)- like 2 (lysosomal integral membrane protein II), EST, Moderately similar to
2060	21066	NM_054001	t		LYII_HUMAN LYSOSOME MEMBRANE PROTEIN II [H.sapiens]
2061	17326	NM_054008	o		RGC32 protein, RIKEN cDNA 1190002H23 gene RGC32 protein, RIKEN cDNA
2061	17327	NM_054008	СС		1190002H23 gene RGC32 protein, RIKEN cDNA
2061	17329	NM_054008	g,o,cc		1190002H23 gene EST, Weakly similar to S17522
2062	25253	NM_057099	j,l,m.p.z	proteasome (prosome, macropain) subunit, beta type 6, proteasome (prosome, macropain) subunit, beta type, 6	multicatalytic endopeptidase complex [H.saplens], ESTs, Weakly similar to PROTEASOME DELTA CHAIN PRECURSOR [R.norvegicus], proteasome (prosome, macropain) subunit, beta type 6, proteasome (prosome, macropain) subunit, beta type 7, proteasome (prosome, macropain) subunit, beta type 7, proteasome (prosome, macropain) subunit, beta type, 6, proteasome (prosome, macropain) subunit, beta type, 7
				proteasome (prosome, macropain) subunit, beta type 6, proteasome (prosome, macropain)	EST, Weakly similar to S17522 multicatalytic endopeptidase complex [H.sapiens], ESTs, Weakly similar to PROTEASOME DELTA CHAIN PRECURSOR [R.norvegicus], proteasome (prosome, macropain) subunit, beta type 6, proteasome (prosome, macropain) subunit, beta type 7, proteasome (prosome, macropain) subunit, beta type 7, proteasome (prosome, macropain) subunit, beta type, 6, proteasome (prosome, macropain)
2062	22849	NM_057099	j.l	subunit, beta type, 6 A kinase (PRKA) anchor	subunit, beta type, 7
2063	19657	NM_057103	b,cc	protein (gravin) 12 UDP glycosyltransferase 1 family, polypeptide A cluster, UDP glycosyltransferase 1 family, polypeptide A6, UDP- glucuronosyltransferase 1	
2064	5492	NM_057105	w	family, member 1 UDP glycosyltransferase 1 family, polypeptide A cluster, UDP glycosyltransferase 1 family, polypeptide A6, UDP- glucuronosyltransferase 1	
2064	15126	NM_057105	r	family, member 1 UDP glycosyltransferase 1 family, polypeptide A ctuster, UDP- glucuronosyltransferase 1	
2064	15125	NM_057105	s	family, member 1	EST Moderately similar to
2066	15391	NM_057114	n		EST, Moderately similar to TDX2_HUMAN THIOREDOXIN PEROXIDASE 2 [H.sapiens], EST, Weakly similar to TDX2_HUMAN THIOREDOXIN PEROXIDASE 2 [H.sapiens], peroxiredoxin 1

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Seq.[D]	lcientifier	Condent Aced. Roi Seq ID No.	Model Code :	Homologous Game Namo Comek	F-25-10
2067	727	NM_057123 NM_057124	m		BCS1 (yeast homolog)-like, ESTs, Highly similar to PRS4_HUMAN 26S PROTEASE REGULATORY SUBUNI 4 [H.sapiens], ESTs, Weakly similar to A44468 26S proteasome regulatory chain 4 [H.sapiens], expressed sequence Al325227, protease (prosome, macropain) 26S subunit, ATPase 1, proteasome (prosome, macropain) 26S subunit, ATPase, 1 ESTs, Weakly similar to P2UR MOUSE P2U PURINOCEPTOR 1 [M.musculus], G protein-coupled receptor 92Y, G-protein coupled 2, pyrimidinergic receptor P2Y, G-protein coupled, 4, pyrimidinergic receptor P2Y, G-protein coupled, 6
2069	15151	NM 057131	k		Coupied, c
2070	1892	NM_057144	b		cysteine and glycine-rich protein 3 (cardiac LIM protein), cysteine rich protein, cysteine-rich protein 2, cysteine-rich protein 3, thymus LIM protein
2071	12333	NM_057155	f		
2071	12331	NM_057155	v,General		
2071	12332	NM_057155	f,General		EST, Weakly similar to B36298 proline
2072	17477	NM_057194	a.General		rich protein PRB3S [H.sapiens], EST, Weakly similar to CGHU3B collagen alpha 3(IV) chain precursor, long splice form [H.sapiens], EST, Weakly similar to D40750 proline-rich protein PRB1/2S [H.sapiens], EST, Weakly similar to JE0284 Mm-1 cell derived transplantability-associated protein 1b [H.sapiens], galectin-related inter-fiber protein, murine leukemia viral (bmi-1) oncogene homolog, phospholipid scramblase 1, phospholipid scramblase 2, phospholipid scramblase 3 2.4-dienoyl CoA reductase 1,
		, <b>-</b>			mitochondrial, 2,4-dienoyl CoA reductase 2, peroxisomal, peroxisomal trans 2-enoyl CoA reductase; putative
2073	15408	NM_057197	p,t		short chain alcohol dehydrogenase
2073	15409	NM_057197	t		2,4-dienoyl CoA reductase 1, mitochondrial, 2,4-dienoyl CoA reductase 2, peroxisomal, peroxisoma trans 2-enoyl CoA reductase; putative short chain alcohol dehydrogenase
2074	7866	NM_057198	h		ESTs, Highly similar to PUR1_HUMAN AMIDOPHOSPHORIBOSYLTRANSFE RASE PRECURSOR [H.sapiens], ESTs, Moderately similar to PUR1_HUMAN AMIDOPHOSPHORIBOSYLTRANSFE RASE PRECURSOR [H.sapiens], RIKEN cDNA 5730454C12 gene, expressed sequence AA675351, expressed sequence C79945, glutamine fructose-6-phosphate transaminase 2, glutamine-fructose-6-phosphoribosyl pyrophosphate amidotransferase

TABLES	e Kiniviviii	<u>kioniorogáisťvy</u>	NOLVILORE .		Alty, Doctet No. 44921-5199006 Doc. No. 1793597.1
Stog. (D No	i Nelilinobl	Corbon't Acel. Ref. Seq. 10 No.	Model Gode	Cored Europological	Homologovis Cluster (Namo
2075	14125	NM_057208	h,j,y,z		ESTs, Highly similar to A25530 tropomyosin, fibroblast [H.sapiens]
2076	10498	NM_057210	k,s		EST, Moderately similar to RS23_HUMAN 40S RIBOSOMAL PROTEIN S2 [R.norvegicus], EST, Weakly similar to RS23_HUMAN 40S RIBOSOMAL PROTEIN S2 [R.norvegicus], ESTS, Weakly similar to RS23_HUMAN 40S RIBOSOMAL PROTEIN S2 [R.norvegicus], Mus musculus, Similar to mitochondrial ribosomal protein S12, clone MGC:13892 IMAGE:4209358, mRNA, complete cds, RIKEN cDNA 2410044J15 gene, expressed sequence Al327385, mitochondrial ribosomal protein S12, ribosomal protein S23
2078	8820	NM_080399	n		
2070	45704	ANA COSEGA			ATP-binding cassette, sub-family C (CFTR/MRP), member 1 (multiple drug resistance-associated protein), ATP-binding cassette, sub-family C (CFTR/MRP), member 1a, ATP-binding cassette, sub-family C (CFTR/MRP), member 1b, ATP-binding cassette, sub-family C (CFTR/MRP), member 2, ATP-binding cassette, sub-family C (CFTR/MRP), member 3, ATP-binding cassette, sub-family C (CFTR/MRP), member 3, ATP-binding cassette, sub-family C (CFTR/MRP), member 6, ESTs, Moderately similar to JE0336 canalicular multispecific organic anion transporter [H.sapiens], RIKEN cDNA
2079 2079	15701	NM_080581	j,m,y,z		1700019L09 gene
	20105	NM_080581	aa		
2080 2081	16109 1757	NM_080585	d .		
2082	7108	NM_080766	у		ESTs, Highly similar to COT2 RAT COUP TRANSCRIPTION FACTOR 2 [R.norvegicus], Homo sapiens cDNA: FLJ22189 fis, clone HRC01043, RIKEN cDNA 2700033K02 gene, nuclear receptor subfamily 2, group E, member 3, nuclear receptor subfamily 2, group F, member 2
2083	132	NM_080782	k		cyclin-dependent kinase inhibitor 1A (P21), cyclin-dependent kinase inhibitor 1A (p21, Cip1), cyclin-dependent kinase inhibitor 1B (p27, kip1), cyclin-dependent kinase inhibitor 1B (p27, Kip1) cyclin-dependent kinase inhibitor 1A (P21), cyclin-dependent kinase inhibitor 1A (p21, Cip1), cyclin-dependent kinase inhibitor 1A (p21, Cip1), cyclin-
2083	133	NM_080782	ı		dependent kinase inhibitor 1B (p27, kip1), cyclin-dependent kinase inhibitor 1B (p27, Kip1) HT014, Homo sapiens thioredoxin
2084	20122	NM_080887	General		delta 3 (TXN delta 3) mRNA, partial cds, RIKEN cDNA 4930429J24 gene, expressed sequence AU021712, thioredoxin, thioredoxin domain-containing 2 (spermatozoa), thioredoxin-like (32kD), thioredoxin-like, 32kD

		HOMOTOGATE VA	5.6	, ,	Atty. Doctot No. 44921-5989W Dos. No. 1793897.
Ko. '''	Menilior	ConBent Acc./. Ref. Sog. ID No.	Model Godo :	Homologous Como	Homely relevable evigelones.
2085	6143	NM_080892	е		Homo sapiens, Similar to selenium binding protein 1, clone MGC:17268 IMAGE:4155238, mRNA, complete cds, selenium binding protein 1, selenium binding protein 2
2086	9952	NM_080902	h		anithalial antaia un manufatad la
2087	17546	NM_130401	b		epithelial protein up-regulated in carcinoma, membrane associated protein 17 ESTs, Weakly similar to
2088	21695	NM 130411	C,X		CO1A_MOUSE CORONIN-LIKE PROTEIN P57 (CORONIN 1A) [M.musculus], coronin, actin binding protein 1A, coronin, actin binding protein 1B, coronin, actin binding protein 1C, coronin, actin-binding protein, 1A, hypothetical protein DKFZp7621166
·					annexin VII, long form [H.sapiens], ESTs, Moderately similar to ANX4 MOUSE ANNEXIN IV [M.musculus], ZAP 36/annexin IV, annexin A4, annexin A7
2089	21391 20694	NM_130416 NM_130430	x,General General		annexin A/
2090	19818	NM 130430	CC		
2090	18810	NM_130430	e,s	-	mitochondrial F1 complex, alpha subunit, isoform 1, ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle, EST, Moderately similar to ATPA RAT ATP SYNTHASE ALPHA CHAIN, MITOCHONDRIAL PRECURSOR [R.norvegicus], expressed sequence AL022851, expressed sequence AL023067
2091	18293	NM_130433	9		
2092	25064	S45392	a,n		
2093	3244	S63519	u		
2094	25501	S63521	q		
2095	18647	S68135 S69316	h		EST, Weakly similar to ENPL_HUMAN ENDOPLASMIN PRECURSOR [H.sapiens], ESTs, Highly similar to HS9B RAT HEAT SHOCK PROTEIN HSP 90-BETA [R.norvegicus], ESTs, Weakly similar to ENPL_HUMAN ENDOPLASMIN PRECURSOR [H.sapiens], Homo sapiens mRNA; cDNA DKFZp564F053), RIKEN cDNA 1810014B01 gene, RIKEN cDNA 2410002K23 gene, expressed sequence C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1, tumor rejection antigen (gp96) 1, tumor rejection antigen (gp98
<b>∠</b> ∪90	1004/	203310	14		ATP-binding cassette, sub-family D
2097	24351	S74257	V		ATP-binding cassette, sub-family D (ALD), member 4, ESTs, Highly similar to JC5604 ABC-transporting peroxisomal membrane protein 69 [H.sapiens], ESTs, Moderately similar to JC5604 ABC-transporting peroxisomal membrane protein 69 [H.sapiens]
2098	25066	S75280	d		[[apiona]
£U30	123000	; J : J200	10		

TABLE	; irinivan	HONOTOGAE VI	ENGITATIONS	美国 人名英格兰	Ally. Docket No. 44221-5189006 Doc. No. 1793897.1
Seq.(ID) No.::	lelemiliter.	Condenis Ace./ Rol. Seq. (D No.	Model Goda	Honologous Conq.	
					DNA segment, Chr 15, Wayne State University 77, expressed, EST, Moderately similar to K2C8 RAT KERATIN, TYPE II CYTOSKELETAL 8 [R.norvegicus], EST, Weakly similar to 137982 Keratin 8 [H.sapiens], ESTs, Moderately similar to 137982 Keratin 8 [H.sapiens], Homo sapiens mRNA; CDNA DKFZp434C107 (from clone DKFZp434C107), RIKEN cDNA 1200016G03 gene, expressed
					sequence AL022697, expressed sequence AU019895, keratin 8, keratin
2099	1460	S76054	j,l,m,x,y,General	1,0	complex 2, basic, gene 8
2100	25539	S76742	v		
2101	16400	S76779	С		
2102 2103	24469 25545	\$77858 \$77900	n k,s		EST, Weakly similar to MOHU6N myosin alkali light chain 6, nonmuscle form [H.sapiens], myosin light chain, alkali, nonmuscle, myosin, light polypeptide 6, alkali, smooth muscle and non-muscle
2103	20040	37/900	K,S	<u> </u>	EST, Weakly similar to MOHULP
2103	21583	S77900	k	-	myosin regulatory light chain, placental [H.sapiens], ESTs, Moderately similar to MOHULP myosin regulatory light chain, placental [H.sapiens], myosin regulatory light chain, myosin, light polypeptide, regulatory, non- sarcomeric (20kD)
2104	10260	S81497	s	lipase A, lysosomal acid, cholesterol esterase (Wolman disease), lysosomal acid lipase 1	
2105	3609	\$82579	k		Homo sapiens, Similar to histamine N- methyltransferase, clone MGC:14500 IMAGE:4249496, mRNA, complete cds, expressed sequence Al788969, histamine N-methyltransferase
2106	111	U02506	U		EST, Moderately similar to
			·		GBLP_HUMAN GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN 12.3 [R.norvegicus], EST, Weakly similar to B33928 GTP-binding protein beta chain homolog [H.sapiens], ESTs, Weakly similar to A36986 activated protein kinase C receptor RACK1 - rat [R.norvegicus], Homo sapiens cDNA: FLJ21913 fis, clone HEP03888, Homo sapiens, Similar to guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1, clone MGC:17239 IMAGE:415503, mRNA, comptete cds, expressed sequence AW544865, guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1,
2107	14959	U03390	a,q,General		guanine nucleotide binding protein, beta 2, related sequence 1

TABLES	KKAWAN S	HOWO FORME AT	ANNY. Docket No. 44921-5199000 Doc. No. 1799997.		
Sog. ID No. 👯		GenDenk Acc./ Ref. Seq. ID No.	Miodo)(God) <	Honologous Cono Namo in a second	Homologous Qivsisi Namsi.
2109 2110	2010 15462	U05675 U06230	b,x,bb		EST, Weakly similar to beta-fibrinoger precursor [H.sapiens], ESTs, Moderately similar to AF125176 1 angiopoietin-related protein-2 [M.musculus], ESTs, Weakly similar to FIBB RAT FIBRINOGEN BETA CHAIN PRECURSOR [R.norvegicus], expressed sequence AI256424, fibrinogen, B beta polypeptide
2112	1583	U07201	s,General	acagagina synthologo	
2113	627	U09229	h	asparagine synthelase	ESTs, Highly similar to CDP_HUMAN CCAAT DISPLACEMENT PROTEIN [H.sapiens], Hepatocyte nuclear factor 6, Human chromosome 17q21 mRNA clone 1046:1-1, KIAA0293 protein, cut (Drosophila)-like 1, cut (Drosophila)-like 1 (CCAAT displacement protein), cut (Drosophila)-like 2, one cut domain, family member 1
2114	809	U17035	General		
2115 2116	16675 25587	U17565 U20110	k,x,bb	mini chromosome maintenance deficient 6 (S. cerevisiae), minichromosome maintenance deficient (mis5, S. pombe) 6	mini chromosome maintenance deficient 6 (S. cerevislae), minichromosome maintenance deficient (mis5, S. pombe) 6
2110	20001	020110	<u>'</u>		·
2117	90	U20796	r		Mus musculus, Similar to nuclear receptor subfamily 1, group D, member 1, clone MGC:6402 IMAGE:3585478, mRNA, complete cds, nuclear receptor subfamily 1, group D, member 2, thyrold hormone receptor alpha
2118	25589	U21718	h,aa		· · · · · · · · · · · · · · · · · · ·
2119	22196	U21719	h		
2120 2121	17118 1537	U25746 U27518	s g,h,n	,	DEAD (aspartate-glutamate-alanine- aspartate) box polypeptide 5, ESTs, Moderately similar to A57514 RNA helicase HEL117 - rat [R.norvegicus], KIAA0801 gene product, RIKEN cDNA 2610007K22 gene, RIKEN cDNA 4921506D17 gene, RIKEN cDNA 9130430L19 gene, RNA helicase, expressed sequence Al325430
			יייייי		EST, Weakly similar to NPT1 RAT
2122	1558	U28504	bb		RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROTEIN 1 [R.norvegicus], ESTs, Weakly similar to NPT1 MOUSE RENAL SODIUM- DEPENDENT PHOSPHATE TRANSPORT PROTEIN 1 [M.musculus], expressed sequence AW261723, solute carrier family 17 (sodium phosphate), member 1, solute carrier family 17 (sodium phosphate), member 3, solute carrier family 17 (sodium phosphate), member 4, solute carrier family 17 (sodium/hydrogen exchanger), member 1

TABLES	S. CHUMAN	<u>KOWOTOGNE VI</u>	EXISTATIONS		Atty, Docker No. 44:21-50:3000 Doc, No. 1793:697.1
Sect. (ID :	ใจไว้สีเปลือว	Content: Acc./ Ref. Seq. ID No.	Model Gode	Hendegove Cond	Homologous Cluster Namo 🤞 🥳
					B/K protein, EST, Moderately similar to S68695 B/K protein - rat [R.norvegicus], Mus musculus B/K mRNA for B/K protein, complete cds, strain:BALB/c, RIKEN CDNA C030008B15 gene, synaptotagmin 1, synaptotagmin 5
2123	16193	U30831 U31598	z		synaptotagnin 5
2124	17480	U33500	General		
2125 2126	18302 25599	U34897	General		
	(-				Homo sapiens, clone MGC:4711 IMAGE:3534915, mRNA, complete cds, RAB23, member RAS oncogene family, RAB3A, member RAS oncogene family, RAB3C, member RAS oncogene family, expressed
2127	1394	U37099	h		sequence Al850886 ESTS, Highly similar to FGD1_HUMAN PUTATIVE RHO/RAC GUANINE NUCLEOTIDE EXCHANGE FACTOR [H.sapiens], ESTS, Weakly similar to B39898 phospholipase A2 [M.musculus], ESTS, Weakly similar to FGD1 MOUSE PUTATIVE RHO/RAC GUANINE NUCLEOTIDE EXCHANGE FACTOR [M.musculus], ESTS, Weakly similar to FGD1_HUMAN PUTATIVE RHO/RAC GUANINE NUCLEOTIDE EXCHANGE FACTOR [H.sapiens], FGD1 family, member 3, RIKEN cDNA 5830461L01 gene, faciogenital dysplasia (Aarskog-Scott syndrome), faciogenital dysplasia homolog, faciogenital dysplasia homolog 2
2128	244	U38376	n.		(human) ESTs, Weakly similar to AF167320 1 zinc finger protein ZFP113 [M.musculus], ESTs, Weakly similar to Z135_HUMAN ZINC FINGER PROTEIN 13 [H.sapiens], ESTs, Weakly similar to ZF29 MOUSE ZINC FINGER PROTEIN 29 [M.musculus], RIKEN cDNA 2310040101 gene,
2129	1623	U41164	h	complement component 4	expressed sequence Al835008
2130	15851	U42719	f,t,x,General	(within H-2S), complement component 4B	EST, Weakly similar to complement component C4A [H.sapiens]
2131	17886	U47315	s.z		
2132	21654	U53184	i,t,General		
2133	1439	U57391	w		
2134	725	U62316	ьь	A kinase (PRKA) anchor	expressed sequence AW146050, monocarboxylate transporter, solute carrier family 16 (monocarboxylic acid transporters), member 3, solute carrier family 16 (monocarboxylic acid transporters), member 7
2137	2153	U75404	b,cc,General	protein (gravin) 12	
2139	4956	U76714	j.y	process (gravity 14	
2140	4477	U77829	li,m		
2141	21703	U82591	z	· i	expressed sequence C76683, putative c-Myc-responsive
~!7!	21100	1002031	<u>,                                    </u>	L	10 mg o roopensive

TABLES	e certana	<u> </u>	INOTATIONS :	the state of the s	
Section 10	relibred	Geneenk Accil; Reil Seg. ID Not	Model (Code)	Honologous Cono Nemo	Handlogous Cluster Mana
					KIAA1683 protein, KIAA1802 protein, expressed sequence AA407558, lymphocyte antigen 64, polymerase (RNA) II (DNA directed) polypeptide A (220kD), suppressor of Ty
2142	977	U89744	S		(S.cerevisiae) 5 homolog high density lipoprotein binding protein
2143	23282	U90725	h		(vigilin)
2144	22005	U96490	m		
2146	819	X02284	j.z	aldolase 2, B isoform, aldolase B, fructose-	
2147	818	X02291	e,j,z	bisphosphate	
2148	20818	X02904	n,q		
2149	16401	X04979	С		
2450	20542	VOEEDA		pyruvate kinase liver and red blood cell, pyruvate kinase, liver and RBC	
2150 2151	20513 25084	X05684 X06769	o,r cc	MILESO, HYO! AND NOO	· · · · · · · · · · · · · · · · · · ·
2152	672	X13722	h		<del></del>
2153	25675	X14181	n		<u> </u>
2153	20810	X14181	n.q.w		EST, Moderately similar to RL1X_HUMAN 60S RIBOSOMAL PROTEIN L18A [H.sapiens], EST, Weakly similar to RL1X_HUMAN 60S RIBOSOMAL PROTEIN L18A [H.sapiens], EST, Weakly similar to S47353 ribosomal protein L18a, cytosolic [H.sapiens], ESTs, Highly similar to RL1X_HUMAN 60S RIBOSOMAL PROTEIN L18A [H.sapiens], RIKEN cDNA 2510019J09gene, ribosomal protein L18a ESTs, Highly similar to RL26_HUMAN 60S RIBOSOMAL PROTEIN L26 [H.sapiens], ESTs, Highly similar to S33713 ribosomal protein L26, cytosolic [H.sapiens], ESTs, Weakly similar to 60S RIBOSOMAL PROTEIN L26 [R.norvegicus], ribosomal protein L26, ribosomal protein L26 pseudogene 1
2155	25679	X15013	9		COT March COO
2155	19244	V15012			EST, Weakly similar to 60S RIBOSOMAL PROTEIN L7A [M.musculus], ESTs, Highly similar to RSHU7A ribosomat protein L7a, cytosolic [H.sapiens], Homo saplens rpL7a pseudogene, clone 3a, Human DNA sequence from clone RP1- 189G13 on chromosome 20. Contains an RPL7A (60S ribosomal protein L7A (SURF3) pseudogene, an RPS4 (40S ribosomal protein S4) pseudogene, ESTs, STSs and GSSs, RIKEN cDNA 4632404N19 gene, ribosomal protein
2155	19244	X15013	c,q,w		L7a EST Al317031, EST, Weakly similar to
2156	15626	X17665	a		R3HU16 ribosomal protein S16, cytosolic [H.sapiens], expressed sequence AA420385, ribosomal protein S16
				phospholipase A2, group	
	1893	X51529	l	IIA (platelets, synovial fluid)	
2157					

TABLE E	e HUMAN	HOMOFOGREVA	INOTATIONS		Ally, Docket No. 44921-5039W6 Doc. No. 1793397.
Seq. [D No. 765	Manifilar	Condon's Ace./ Role Sog. ID No.	Model Code	Keme . Kongedere Geve	Hemologous Cluster Mairo
					EST, Moderately similar to R3RT3 ribosomal protein S3 - rat [R.norvegicus], EST, Weakly similar to R3RT3 ribosomal protein S3 - rat
2158	10819	X51536	aa,bb		[R.norvegicus], hypothetical protein FLJ23059, ribosomal protein S3
					EST, Weakly similar to 60S RIBOSOMAL PROTEIN L9 [R.norvegicus], EST, Weakly similar to S42106 ribosomal protein L9 homolog [H.sapiens], ESTs, Highly similar to S42106 ribosomal protein L9 homolog [H.sapiens], ESTs, Moderately similar to 60S RIBOSOMAL PROTEIN L9 [R.norvegicus], RIKEN cDNA 4930401B11 gene, ribosomal protein
2159	18250	X51706	a,q,w	ribosomal protein L9	L9 EST, Moderately similar to 40S
					RIBOSOMAL PROTEIN S19 [R.norvegicus], EST, Weakly similar to RS19_HUMAN 40S RIBOSOMAL PROTEIN S19 [H.saplens], ribosomal
2160	20872	X51707	а	ribosomal protein S19	protein S19 myxovirus (influenza virus) resistance
					myxovirus (influenza) resistance 1, homolog of murine (interferon-
2161	516 25689	X52711 X52815	C		inducible protein p78)
2162	20427	X53378	<u>g</u> w		ESTs, Highly similar to RS13_HUMAN 40S RIBOSOMAL PROTEIN S13 [H.sapiens], ESTs, Moderately similar to RS13_HUMAN 40S RIBOSOMAL PROTEIN S13 [H.sapiens]
2164	18606	X53504	General		EST, Moderately similar to S35531 ribosomal protein L12, cytosolic [H.sapiens], EST, Weakly similar to 60S RIBOSOMAL PROTEIN L12 [R.norvegicus], hypothetical protein, ribosomal protein L12
2165	1463	X54467	d,u,General		
					EST, Weakly similar to 60S ACIDIC RIBOSOMAL PROTEIN P2 [R.norvegicus], EST, Weakly similar to R6HUP2 acidic ribosomal protein P2, cytosolic [H.sapiens], ESTs, Highly similar to 60S ACIDIC RIBOSOMAL PROTEIN P2 [R.norvegicus], ESTs, Highly similar to MTJ1 MOUSE DNAJ PROTEIN HOMOLOG MTJ1 [M.musculus], Human DNA sequence from clone RP3-408B20 on
2166	24577	X55153	a,v		chromosome 6 Contains ESTs, STSs and GSSs. Contains a gene and two pseudogenes for novel 7 transmembrane receptors (olfactory family) and a gene for a novel protein similar to 60S acidic ribosomal protein P2 (RPLP2), RIKEN cDNA 2700049122 gene, ribosomal protein, large P2, ribosomal protein, large, P1

TABLES	E CHANNEN	<u> HOWOTOGAEXÝ</u>	RYOTRATOXI	ar in the	#Auy. Docket No. 44921-593900 Doc. No. 1793597.1
Sog. (D Ko. v	الأعمالات	GenDeni: Acc./ 4 Ref. Seq. ID No."	Model Gode	Homologows Cone Cone Cone Cone Cone Cone Cone Cone	Hamelegous Cluster Name
2167	10344	X57405	j.m	Notch (Drosophila) homolog 1 (translocation- associated), Notch gene homolog 1, (Drosophila)	EST, Highly similar to A40043 notch protein homolog TAN-1 precursor [H.sapiens], EST, Weakly similar to A40043 notch protein homolog TAN-1 precursor [H.sapiens], ESTs, Weakly similar to NEUROGENIC LOCUS NOTCH HOMOLOG PROTEIN 1 PRECURSOR [M.musculus], Homo sapiens mRNA; cDNA DKFZp761G02121 (from clone DKFZp761G02121); partial cds, Notch (Drosophila) homolog 1, Notch (Drosophila) homolog 2, Notch (Drosophila) homolog 3, Notch 3, Notch gene homolog 1, (Drosophila), jagged 1 EST, Weakly similar to S30393
					ribosomal protein S18, cytosolic [H.sapiens], ESTs, Highly similar to S30393 ribosomal protein S18, cytosolic [H.sapiens], ribosomal
2168 2169	15106 5667	X57529 X58200	g,n,q q,bb	ribosomal protein L23	protein S18
2169	18611	<b>X58200</b>	a,v	•	EST, Moderately similar to 60S RIBOSOMAL PROTEIN L29 [R.norvegicus], EST, Weakly similar to 565784 ribosomal protein L29, cytosolic [H.sapiens], ESTs, Highly similar to 565784 ribosomal protein L29, cytosolic [H.sapiens], ESTs, Weakly similar to 60S RIBOSOMAL PROTEIN L29 [M.musculus], Human DNA sequence from clone RP4-595K12 on chromosome 1p31.2-31.3 Contains a pseudogene similar to 60S RPL29 (ribosomal protein L29 (cell surface heparin binding protein HIP)), a chromosome 1 specific mRNA (KIAA0499), a novel mRNA (KIAA0433), ESTs, STSs, GSSs and a CpG Island, ribosomal protein L29
					EST, Moderately similar to RL17_HUMAN 60S RIBOSOMAL PROTEIN L17 [H.sapiens], EST, Weakly similar to RL17 RAT 60S RIBOSOMAL PROTEIN L17 [R.norvegicus], EST, Weakly similar to RL17_HUMAN 60S RIBOSOMAL PROTEIN L17 [H.sapiens], ESTs, Weakly similar to R5HU22 ribosomal
2170	17175	X58389	<u>w</u>		protein L17, cytosolic [H.sapiens] EST, Moderately similar to 40S RIBOSOMAL PROTEIN S5 [R.norvegicus], ESTs, Weakly similar to S55916 ribosomal protein S5, cytosolic [H.sapiens], ribosomal
2171	25702 10109	X58465 X58465	w c,q	ribosomal protein S5	protein S5 EST, Moderately similar to 40S RIBOSOMAL PROTEIN S5 [R.norvegicus], ESTs, Weakly similar to S55916 ribosomal protein S5, cytosolic [H.sapiens], ribosomal protein S5
2171					

Encore e	. 0/0(00061	Marvial Galus Av	MARATIONS		Ally, Docket No. 44924-5089W0
VABUE 8		HOMOLOGUE AN	Renamers	A.	Dos. No. 1799997.1
Seg, [D No. : :	ໃຕ້ເປັນເຂົາ	ConBen's Aced; Ref. Seq. ID No.	Model Gode	GRED EVECTORICH Canal	Momelogous Cluster Name ::
2173	25709	X59737	U	creatine kinase, mitochondrial 1 (ubiquitous), creatine kinase, mitochondrial 1, ubiquitous	
					ESTs, Moderately similar to dJ63G5.3 [H.sapiens], RIKEN cDNA 1700034K16 gene, RIKEN cDNA
2174	18354	X59859	General	decorin	5530600M07 gene, decorin ESTs, Moderately similar to dJ63G5.3
2174	18355	X59859	t	decorin	[H.sapiens], RIKEN cDNA 1700034K16 gene, RIKEN cDNA 5530600M07 gene, decorin
·	21657	X61381	General		ESTs, Moderately similar to S17182 interferon-induced protein 1-8U [H.sapiens], ESTs, Weakly similar to putative haemopoletic membrane protein [M.musculus], Human DNA sequence from clone RP4-781L3 on chromosome 1p34.3-36.11 Contains a pseudogene similar to IFITM3 (interferon inducedntransmembrane protein 3 (1-8U)), STSs and GSSs, RIKEN cDNA 1110004C05 gene, interferon induced transmembrane protein 3 (1-8U), interferon induced transmembrane protein 3-like, interferon-inducible protein 16
2176	21657 25718	X62145	bb,General		Interieron-inducible protein 16
					EST, Highly similar to 60S RIBOSOMAL PROTEIN L8 [R.norvegicus], EST, Moderately similar to 60S RIBOSOMAL PROTEIN L8 [R.norvegicus], EST, Weakly similar to JN0923 ribosomal protein L8, cytosolic [H.sapiens], ESTs, Highly similar to 60S RIBOSOMAL PROTEIN L8 [R.norvegicus], ESTs, Highly similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L [M.musculus], ESTs, Moderately similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L [M.musculus], expressed sequence
2176	15875	X62145	a,q,v		AL024098, ribosomal protein L8
			÷	· .	EST, Weakly similar to 60S RIBOSOMAL PROTEIN L3 [R.norvegicus], EST, Weakly similar to 184501 ribosomal protein L3 [H.sapiens], ESTs, Moderately similar to 60S RIBOSOMAL PROTEIN L3 [R.norvegicus], ESTs, Moderately
2177	13646	X62166	bb		similar to 184501 ribosomal protein L3 [H.sapiens], ESTs, Weakly similar to RL3 MOUSE 60S RIBOSOMAL PROTEIN L3 [M.musculus], RIKEN cDNA 1110057H16 gene, ribosomal protein L3, ribosomal protein L3-like
2178	25721	X62325	р		
2179	16012	X62875	m,s,z	2	high mobility group AT-hook 1, high- mobility group (nonhistone chromosomal) protein isoforms I and Y
2180	25730	X63369	cc		G. G. G. G. G. G. G. G. G. G. G. G. G. G
2181	25089	X63594	General		
2181	25090	X63594	cc,General		L

TABUES	e-Ruman	HOWOTOGAÉ V	IXOTATIOXE :		- Any: Dogket No. 44921-2000 Doe, No. 1790397.1
Seq.,ID No.	ideniffier	ConBook Acc./ Ref. Seq. ID No.	Model Gode	Komologovs Coro.	Homolorous Cirster Namo
2182	20844	X65228	n,w		EST, Highly similar to 60S RIBOSOMAL PROTEIN L23A [R.norvegicus], ESTs, Highly similar to RL2B_HUMAN 60S RIBOSOMAL PROTEIN L23A [H.sapiens], ribosomal protein L23a
					EST, Weakly similar to JC5408 carboxylesterase [H.sapiens], ESTs, Moderately similar to ES22 MOUSE LIVER CARBOXYLESTERASE 22 PRECURSOR [M.musculus], T-complex expressed gene 5, carboxylesterase 1, carboxylesterase 1 (monocyte/macrophage serine esterase 1), carboxylesterase 3,
2183	20879	X65296	J.y	· · · · · ·	carboxylesterase 3 (brain)
2184	25736	X68782	<b>C</b>	collagen, type III, alpha 1 (Ehlers-Danios syndrome type IV, autosomal dominant), procollagen,	EST, Highly similar to CA13_HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [H.sapiens], EST, Moderately similar to CA13_HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [H.sapiens], EST, Weakly similar to CGHU7L collagen alpha 1(III) chain precursor [H.sapiens], ESTs, Highly similar to CA21_HUMAN COLLAGEN ALPHA 2(I) CHAIN PRECURSOR [H.sapiens], collagen type V, alpha 2, collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant), macrophage receptor with collagenous structure, procollagen,
2185	16426	X70369	С	type III, alpha 1	type III, alpha 1
2186	16300	X70706	U		ESTs, Highly similar to A34789 T- plastin [H.sapiens], ESTs, Highly similar to PLSI_HUMAN I-PLASTIN [H.sapiens], expressed sequence A1115446, expressed sequence A1427122, expressed sequence AL024105, plastin 2, L
2197	24222	Y75207			B-cell CLL/lymphoma 1, EST, Moderately similar to CGD1 RAT G1/S- SPECIFIC CYCLIN D1 [R.norvegicus], ESTs, Weakly similar to 1709356A cyclin PRAD1 [H.sapiens], cyclin D1, cyclin D1 (PRAD1: parathyrold adenomatosis 1), expressed sequence
2187	24232	X75207	С		Al327039 ESTs, Highly similar to alpha-albumin
2188 2189	16272	X76456	n.p_		protein [M.musculus], Mus musculus mRNA for alpha-albumin protein, afamin
2109	25741	X76489	U		ESTs, Weakly similar to DAHUA1
2190	23302	X78949	h		ES1s, Weakly Similar to DAHOAT procollagen-proline dioxygenase [H-sapiens], expressed sequence Al853847, expressed sequence C76437, procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha 1 polypeptide, procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide I, procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide II

Start	TABLES	e (AUMAN)	HOMOFOGAE V	SKONATOKE	12 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m	· Any. Docket No. 44221-5032446 Doc. No. 17733277.
EST, Weakly similar to KERATIN, TYPE I CYTOSKELETA. 19   IM.musculus, ESTs, Moderately similar to KICJ. HUMAN KERATIN, TYPE I CYTOSKELETA. 19   IM.musculus, ESTs, Moderately similar to KICJ. HUMAN KERATIN, TYPE I CYTOSKELETA. 10   IH.sapiens, ESTs, Weakly similar to S30433 keratin 17, byee I, cytoskelata	Scq. (D No. 1			Model Code		
TYPE I CYTOSKELETA. 19	2191	25747	X81448	General		
2194   25997   290642   27.2   2195   2978   2978   2978   2978   2978   2978   2978   2978   2978   2978   2977   207704   c   2198   25777   208355   2777   27704   c   2	2192					TYPE I CYTOSKELETAL 19 [M.musculus], ESTs, Moderately similar to K1CJ_HUMAN KERATIN, TYPE I CYTOSKELETAL 10 [H.sapiens], ESTs, Weakly similar to S30433 keratin 17, type I, cytoskeletal [H.saplens], Homo sapiens mRNA for keratin 19, partial cds, isolate:K19-141 keratin 19, keratin complex 1, acidic, gene 19, type I intermediate filament
1997   1998   1998   1998   1998   1998   1998   1998   1998   1999   1998   1998   1999   1998   1998   1999						
2198   25777   4594   Y07704   C						immediate early recesses 2
25777   Y08355   g.p.General   EST, Weakly similar to OCN2 MOUSE   ORGANIC CATION/CARNITINE   TRANSPORTER [M.musculus], ESTS, Highly similar to CON2 HUMAN   ORGANIC CATION/CARNITINE   TRANSPORTER [M.musculus], ESTS, Highly similar to ICON2 HUMAN   ORGANIC CATION/CARNITINE   TRANSPORTER [H.sapiens], ESTS, Weakly similar to JE0346 high-affinity camtine transporter, CT1 - rat   (R.norvegicus), ion transporter protein solute carrier family 22 (organic cation transporter), member 4, solute carrier family 22 (organic cation transporter), member 4, solute carrier family 22 (organic cation transporter), member 9   CD9 antigen, RIKEN cDNA   G330415F13 gene, RIKEN c					<del></del>	Immediate early response 3
EST, Weakly similar to OCN2 MOUSE ORGANIC CATION/CARNITINE TRANSPORTER 2 [M.musculus], ESTs, Highly similar to OCN2 HUMAI ORGANIC CATION/CARNITINE TRANSPORTER 2 [M.musculus], ESTs, Highly similar to OCN2 HUMAI ORGANIC CATION/CARNITINE TRANSPORTER 2 [M.musculus], ESTs, Weakly similar to JE0346 high-affinity camtine transporter, Dart 1 - rat [R.norvegicus], ion transporter protein solute carrier family 22 (organic cation transporter), member 1, solute carrier family 22 (organic cation transporter), member 4, solute carrier family 22 (organic cation transporter), member 5, solute carrier family 22 (organic cation transporter), member 9 (D9 antigen, RIKEN cDNA 6330415F13 gene, RIKEN cDNA 6330415						
6330415F13 gene, RIKEN cDNA   B230119D02 gene, expressed   sequence C76990, transmembrane 4   superfamily member 3	2199	15986	Y09945	bb,General		ORGANIC CATION/CARNITINE TRANSPORTER 2 [M.musculus], ESTs, Highly similar to OCN2_HUMAN ORGANIC CATION/CARNITINE TRANSPORTER 2 [H.sapiens], ESTs, Weakly similar to JE0346 high-affinity camtine transporter, CT1 - rat [R.norvegicus], ion transporter protein, solute carrier family 22 (organic cation transporter), member 1, solute carrier family 22 (organic cation transporter), member 4, solute carrier family 22 (organic cation transporter), member 5, solute carrier family 22 (organic cation transporter), member 9
CELL DEATH 1 [R.norveglcus], defender against cell death 1, expressed sequence Al323713  2202 406 Z11995 o.General  ESTs, Moderately similar to dJ63G5.3 [H.sapiens], RIKEN cDNA 1700034K16 gene, RIKEN cDNA 1700034K16 gene, RIKEN cDNA 2203 18352 Z12298 t decorin 5530600M07 gene, decorin 2204 17481 Z49761 k  ESTs, Highly similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens], ESTs Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] 2206 2459 AA964755 cc 23830 AA956638 aa	2200	20890	Y13275	k		6330415F13 gene, RIKEN cDNA B230119D02 gene, expressed sequence C76990, transmembrane 4 superfamily member 3 ESTs, Weakly similar to
2202 406 Z11995 O,General  ESTs, Moderately similar to dJ63G5.3 [H.sapiens], RIKEN cDNA 1700034K16 gene, RIKEN cDNA 1700034K16 gene, RIKEN cDNA 5530600M07 gene, decorin  2204 17481 Z49761 k  ESTs, Highly similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens], ESTs Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens]  2205 8664 Z75029 r,v DKFZp586K1924.1 [H.sapiens]  2206 2459 AA964755 cc 2207 23830 AA956638 aa					*	CELL DEATH 1 [R.norvegicus], defender against cell death 1,
ESTs, Moderately similar to dJ63G5.3 [H.sapiens], RIKEN cDNA 1700034K16 gene, RIKEN cDNA 1700034K16 gene, RIKEN cDNA 5530600M07 gene, decorin 5530600M07 gene, decorin ESTs, Highly similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens], ESTs Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTs Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] ESTS Moderately similar to T17342 hypothetical protein	2201			d		expressed sequence Al323713
[H.sapiens], RIKÉN cDNA 1700034K16 gene, RIKEN cDNA 1700034K16 gene, RIKEN cDNA 1700034K16 gene, RIKEN cDNA 5530600M07 gene, decorin  2204 17481 Z49761 k  ESTs, Highly similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens], ESTs Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens]  2205 8664 Z75029 r,v DKFZp586K1924.1 [H.sapiens]  2206 2459 AA964755 cc 2207 23830 AA956638 aa	2202	406	Z11995	o,General	<u>.                                    </u>	LEGT. M. J. J. J. J. J. J. J. J. J. J. J. J. J.
ESTs, Highly similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens], ESTs Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens] 2205 8664 Z75029 r,v DKFZp586K1924.1 [H.sapiens] 2206 2459 AA964755 cc 2207 23830 AA956638 aa	2203			t lk	decorin	[H.sapiens], RIKEN cDNA 1700034K16 gene, RIKEN cDNA
2207 23830 AA956638 aa	2205	8664	<b>Z</b> 75029	r,v		hypothetical protein DKFZp586K1924.1 [H.sapiens], ESTs, Moderately similar to T17342 hypothetical protein
2208   6100   X73524   x		23830 6100	AA956638 X73524			<u> </u>

TABLES	e. Chainizh	rioworocae	·· EXOTATOXI	· · · · · · · · · · · · · · · · · · ·	: Affy, Docket No. 44921-5039000 ; Dock No. 1793337.
809. (P) No. '''	Deniller	ConBank Acc. Ref. See UD No.	Model Code	Momologous Cono Namo	Homologous Cluster Name
2209	439	<b>Z22607</b>	w	bane morphogenetic protein 4	bone morphogenetic protein 15, bone morphogenetic protein 4, endometrial bleeding associated factor, endometrial bleeding associated factor (left-right determination, factor A; transforming growth factor beta superfamily), growth differentiation factor 2, growth differentiation factor 5 hypothetical protein FLJ10314
2210	8665	Al071965	v		ESTs, Highly similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens], ESTs Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens]
	·				CD163 antigen, ESTs, Highly similar to 138005 M130 antigen precursor, splice form 4 [H.sapiens], KIAA1822 protein, apoptosis inhibitory 6, crp-ductin, deleted in malignant brain tumors 1, lectin, galactoside-binding, soluble, 3 binding protein, macrophage
2211	155	U32681 AA892041	t	selenium glutathione	scavenger receptor 2, peptidylprolyl isomerase C-associated protein ESTs, Moderately similar to AOP2_HUMAN ANTIOXIDANT PROTEIN 2 [H.sapiens], anti-oxidant protein 2 (non-selenium glutathione peroxidase, acidic calciumindependent phospholipase A2), peroxiredoxin 5
2213	15582	Al232320	0	peroxiredoxiri 3	perdxireddxiii 3
2214	17541	M26125		epoxide hydrolase 1, microsomal, epoxide hydrolase 1, microsomal (xenobiotic)	EST, Moderately similar to HYEP_HUMAN EPOXIDE HYDROLASE 1 [H.sapiens], ESTs, Highly similar to HYEP_HUMAN EPOXIDE HYDROLASE 1 [H.sapiens] epoxide hydrolase 1, microsomal, epoxide hydrolase 1, microsomal (xenobiotic)
2215	18609	M30689	1	(venonone)	(xonobiode)
2216	6262	Al177125	g		
2217	23859	Al072161	f		
2218	21011	H32189		glutathione S-transferase M2 (muscle), glutathione S- transferase, mu 2	ESTs, Moderately similar to GLUTATHIONE S-TRANSFERASE YB1 [R.norvegicus], glutathione S- transferase M1, glutathione S- transferase, mu 1
2220	2572	Al177143	p	0 MINISTERS   100 E	
2221	25419	M22922	a		

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TABLE W. GODE KEY	With Ford Con It	(0) 44.621 = 0.0500 (0) 47.03007 1
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GENERAL TOXICITY		General
ACYCLOVIR	24, 168	a
ACYCLOVIR	6	b
ADR	120, 168	C
AY	360	d
BEA	6, 24	e
CAPTOPRIL	336	f
CARBOPLATIN	6	g
CEPHALORIDINE	6, 24	h
CIDOFOVIR	120	<u>                                     </u>
CISPANcombined	6, 24	<u> </u>
CISPLATIN	168	k
CISPLATIN	6, 24	
CISPLATIN	6, 24, 168	m
CITRININ	6, 24	n ·
COLCHICINE	6, 24, 48	0
CYCLOPHOSPHAMIDE	6	р
DIFLUNISAL	24	q
HYDRALAZINE	6	r
IFOSFAMIDE	6, 24, 48, 144	S
INDOMETHACIN	48, 72	t
LITHIUMCHLORIDE	120	u
MERCURICCHLORIDE	3, 6, 24	V
PAMIDRONATE	24	W
PAN	168	X
PAN	6, 24	у
PAN	6, 24, 168	Z
SEMUSTINE	168	aa
SULFADIAZINE	24	bb
SULFADIAZINE	3, 6	cc

	CENERAL		Alty. Doc		921-5039WO
					<u>lo. 1793397.1</u> I
	MonToxMean.			Tox&D::	LDAScore:
12979	326.05	98.48	729.13	345.15	83.46
23314	-7.57	63.50	480.54	528.59	83.43
5461	161.65	48.19	368.42	210.09	82.70
9583	40.60	17.67	158.01	127.01	82.56
16982	59.51	36.53_	506.74	577.57	81.34
1809	5.28	13.85	191.53	265.23	81.21
19184	59.98	26.06	191.02	128.18	81.04_
24200	382.07	78.91	618.97	199.18	80.18
15003	13.42	14.74	154.63	217.73	79.83
2629	18.92	8.93	58.17	43.50	79.72
22321	82.69	25.99	192.94	130.47	79.58
15301	20.84	20.65	124.72	132.03	79.47
15032	280.18	50.93	183.93	78.32	79.33
7489	89.81	28.30	47.02	25.94	79.28
2242	2431.04	453.24	1658.86	711.96	79.26
3050	77.80	26.29	166.37	91.49	79.22
22681	170.38	56.88	497.37	377.15	79.20
24042	4.31	9.28	112.52	198.98	79.06
14425	191.57	51.38	315.84	117.32	79.05
15300	104.10	41.29	305.26	261.16	79.01
23651	487.82	171.51	1473.41	1227.36	78.44
15964	1274.63		824.24	343.96	78.27
16312	44.81	17.42	107.40	60.46	78.21
16168	305.21	53.33	588.32	425.68	78.12
5384	28.68	24.27	102.33	70.63	78.08
12978	92.29	28.22	178.30	79.32	77.90
21654	332.77		518.29	196.63	77.78
3874	934.64	159.07	672.84	188.60	77.60
3049	176.71	56.69	334.05	163.05	77.39
16314	33.02	22.70	103.37	64.81	77.39
23299	345.71		514.49	166.24	77.35
9166	13.09		40.42	28.18	77.33
14763	1.59	39.67	228.03	268.46	77.30
4479	133.60	62.59		86.27	77.27
15928	142.69	34.11	244.10	90.89	77.08
3941	229.39	59.58		88.12	76.99
28	540.29	128.18	342.30	188.50	76.94
14929	687.79	150.66	1358.82	807.54	76.87
22885	1229.56	342.00	1987.11		76.84
22765	15.12			40.27	76.68
19040	158.12			212.49	76.68
21239	98.57	31.29	190.62	93.31	76.57
2555	83.76	25.31		79.77	76.51
15051	558.01			424.38	76.38
22569	701.48		468.05	181.60	76.33
15299	73.40	22.15	164.49	121.44	76.17
20116	1.36		53.19	60.94	76.12
7299	141.75			279.53	75.86
11618	445.83		290.61	162.81	75.81
23868	113.35	64.90	514.43	654.54	75.65
812	164.76	29.18		38.83	75.63
23166	116.47		215.89	104.73	75.55
19723	63.30	24.96	147.23	109.39	75.53
2161	10.89		40.17	28.34	75.53
22592	195.01		453.16	291.73	75.50
21683	27.66	14.45	65.00	37.84	75.44

	CENERAL S	Mary Control of	· Atty. Doc	ket No.:44	021-5000W0
3					<u>lo. 1793397.1</u> l. –
ldentifier.	MonToxMean	<u>ASTOTATION</u>	Toxillean:		LDAScore :
7540	135.61	39.51	269.18	167.73	75.42
3121	1387.78	270.45	970.56	410.36	75.23
17325	37.68	26.79	190.12	198.72	75.23
4049	8.16	14.26	100.05	143.11	75.21
24219	294.84	62.68	415.01	115.05	75.14
7101	266.61	65.47	1024.56	1594.33	75.14
21462	246.43	47.45	320.88	67.53	75.11
21458	203.89	61.93	345.78	139.58	75.01
1460	178.45	37.93	302.50	171.15	74.92
23957	57.89	29.03	120.87	65.67	74.89
12921	92.69	31.09	174.99	86.55	74.88
24237	46.61	22.12	105.68	71.47	74.84
20830	482.35	118.55	717.12	282.77	74.80
14185	181.85	52.63	307.94	156.98	74.74
3091	821.34	154.51	616.81	215.94	74.73
6046	221.77	64.88	141.08	71.40	74.73
10818	509.63	159.26	301.00	207.18	74.63
18906	270.92	73.69	171.86	79.69	74.60
17361	160.53	54.00	92.22	55.73	74.60
574	297.07	48.04	543.78	340.56	74.58
1529	305.18	51.69	224.24	69.41	74.56
20161	30.38	21.73	80.33	56.50	74.54
22152	-0.67	16.93	51.48	64.42	74.54
21391	183.11	55.68	391.43	249.63	74.34
20056	319.93	46.22	248.41	81.57	74.34
5711	402.83	114.80	268.76	100.84	74.34
16169	126.24	66.19	419.86	462.11	74.32
7196	160.17	37.22	297.55	159.08	74.29
13634	754.99	133.63	1123.83	475.68	74.29
10659	111.21	38.66	239.07	166.99	74.28
15089	162.94	57.42	271.19	109.36	74.26
2628	8.82	14.55	37.93	39.15	74.22
1521	7.84	37.91	80.00	74.26	74.20
17524	1225.79	235.19	927.05	284.85	74.20
14677	64.57	22.56	114.45	54.63	74.04
17357	284.47	66.73	189.90	103.16	73.97
15382	79.92	58.73	367.62	435.18	73.94
1141	226.12	47.74	315.88	93.78	73.94
3995	643.39	131.36	476.67		73.88
6804	1354.29	374.19	830.60	415.24	73.82
20694	1004.30	200.48	773.76	246.63	73.81
8477	493.77	117.87	724.70	226.98	73.80
13332	440.18	81.35	336.07	113.36	73.79
2912	2775.27	619.46	2040.05	590.49	73.79
8143	30.96	28.78	105.91	87.78	73.79
8639	351.67	79.66	468.70	121.28	73.78
354	191.57	43.15	335.31	175.98	73.77
2702	261.10	53.61	363.77	115.07	73.74
13411	857.90	304.76	508.64	242.77	73.71
23261	1651.29	316.95	1185.07	374.72	73.69
16775	1092.58	348.47	732.47	398.39	73.66
10016	191.31	45.71	298.01	134.57	73.59
353	154.16	43.72	275.53	149.36	73.59
5295	199.26	56.55	318.50	126.31	73.55
10015	215.25	41.54	323.40	147.43	73.54

TABLE 5:	Ceneral :		Atty. Doctet No. 44921-5939WC Doc. No. 1793397.1		
ldendfær:	NonToxMeen	CEX TO TO NOW	Tox(Mean "	ToxSD .	LDAScore
20458	377.19	83.99	283.38	95.28	73.52
23869	24.11	23.82	132.98	190.30	73.49
20848	474.69	80.77	708.43	261.80	73.46
9067	645.45	126.00	841.67	201.55	73.45
923	10.66	7.41	32.76	27.77	73.40
4291	317.92	87.25	202.30	99.83	73.38
18529	184.43	47.69	306.78	139.66	73.35
22626	66.24	25.65	191.03	161.08	73.32
3823	488.87	101.91	709.19	233.23	73.30
15663	179.56	40.22	269.94	97.24	73.29
22929	927.47	283.23	548.56	310.91	73.27
373	20.21	24.84	107.75	123.23	73.25
4952	97.10	31.18	160.25	66.14	73.23
2905	221.02	70.67	379.00	165.35	73.23
7127	301.01	84.77	195.82	87.14	73.22
20035	157.82	53.67	318.27	196.89	73.21
14424	40.56	38.11	216.48	294.45	73.19
1501	46.55	22.43	125.28	104.55	73.19
811	268.35	42.34	201.54	69.48	73.14
3610	1272.79	264.85	879.10	411.90	73.12
9053	249.79	41.36	192.96	58.86	73.09
23538	85.95	40.73	190.24	133.78	73.07
18337	1699.33	315.35	1236.46	390.84	73.06
15002	119.96	26.12	252.22	220.20	73.06
21147	365.33	62.56	285.83	76.45	73.05
8721	208.57	63.43	132.86	65.90	73.03
1462	364.98	75.98	659.63	429.84	73.01
11483	54.82	19.42	118.04	81.85	72.90
2348	545.81	197.73	349.07	201.06	72.86
1564	6.71	7.78	209.28	375.95	72.86
12467	60.46	20.47	103.84	48.93	72.85
6638	104.00	28.03	76.61	32.45	72.83
19031	50.08	27.00	116.79	84.17	72.83
1246	98.28	29.26	60.78	37.90	72.82
23872	30.55	27.67	146.46	207.24	72.80
19678	121.25	48.99	54.47	69.08	72.78
23512	1086.33	216.78	839.09	240.27	72.77
6321	458.69	127.59	644.50	219.13	72.75
22596	57.04	17.25	81.28		72.75
24431	50.52	15.50	151.16	210.56	72.73
15110	663.97	145.61	479.15	149.17	72.73
	12.32		44.12	34.64	72.71
15892		15.49		39.77	72.67
14458	29.92	20.00	71.32		72.53
6641	402.83	66.65	309.63	82.93	
1422	315.77	80.70	215.58	83.38	72.53
21443 8829	90.59	31.63 62.24	155.73	92.87	72.53 72.51
	264.33		350.44	106.21	72.51 72.48
21632	27.74	33.70	87.38	68.91	
24388	173.36	44.15	275.21	119.72	72.47
15851	171.96	68.96	332.47	267.49	72.38
15042	55.43	27.40	117.95	81.96	72.32
17908	49.38	21.99	125.62	121.11	72.32
15618	90.24	22.13	124.19	32.66	72.27
21318	41.50	23.94	72.71	32.13	72.27
6054	18.00	9.60	85.39	126.27	72.24

**WO** 02/095000

TABLE S:	CENERAL:	A STATE OF THE STA	Ally, Doc	ket No. 4% Doc. R	1921-5039WC lo. 1793397.1
ldentifier	NoonToxMoon	MonToxSD	ToxMean	ToxSD :	LDAScore
1727	30.19	25.05	113.76	121.46	72.19
23202	169.96	36.51	126.76	36.17	72.16
22248	216.64	78.55	393.59	188.26	72.15
22612	487.17	110.76	359.48	126.14	72.14
17734	106.27	34.17	214.91	182.70	72.12
19235	1112.95	271.69	810.00	308.94	72.06
13618	96.22	26.36	137.92	45.79	72.04
		12.50	46.38	27.18	72.03
19525 4584	23.64	22.50	109.66	36.31	71.98
	76.41				
22197	112.68	34.33	178.88	75.61	71.98
24762	1064.07	310.38	755.53	273.04	71.97
10985	1189.01	218.09	885.13	290.39	71.96
3145	466.94	133.08	330.71	144.92	71.93
20828	278.75	83.71	482.02	272.83	71.89
2395	172.58	47.67	175.81	100.28	71.86
13609	252.08	52.43	186.04	64.47	71.86
21339	29.51	15.60	53.28	32.70	71.78
3079	27.52	22.01	67.24	49.93	71.78
16321	219.91	42.72	273.17	55.96	71.77
4944	100.32	33.19	177.16	86.89	71.77
24568	162.64	51.57	105.85	46.68	71.75
3875	539.59	120.20	389.50	146.06	71.75
6382	117.04	33.24	171.65	55.00	71.73
3959	329.28	86.36	451.00	151.79	71.73
8795	14.06	10.71	26.30	13.30	71.72
17477	102.32	22.97	156.34	68.17	71.72
7700	74.32	20.26	138.95	92.87	71.68
17550	1380.51	319.12	1028.40	363.64	71.63
410	1155.16	215.31	918.14	252.51	71.63
17682	706.42	143.23	505.72	215.80	71.63
5897	20.54	16.83	45.41	23.66	71.63
4661	288.80	58.15	408.62	120.87	71.59
16521	266.79	60.39	378.60	127.02	71.59
13610	371.99	53.12	283.18	88.22	71.55
22554	565.54	122.08	428.04	154.62	71.49
11910	25.51	35.83	-5.43	31.38	71.47
15588	-4.65	25.14	33.98	37.77	71.42
5601	1014.34	210.01	731.23	341.39	71.42
5780	-23.15	27.07	32.19	62.08	71.38
21546	-79.60	43.55	44.91	170.38	71.38
15039	285.29	65.31	206.99	101.12	71.38
18300	483.67	133.71	307.50	148.77	71.38
14970	215.37	35.86	161.84	54.69	71.32
13151	635.29	173.43	1103.53	626.81	71.32
7197	180.11	57.15	296.88	139.25	71.28
21238	-24.44	33.42	22.20	43.34	71.28 71.27
25090	74.42	33.18	128.49	62.02	71.24
18564	225.23	44.60	181.56	58.17	71.23
1409	441.80	78.21	357.51	91.06	71.20
7903	526.91	184.33	331.16	186.75	71.18
24109	231.59	87.11	172.36	143.80	71.18
6416	108.18	41.02	234.59	190.53	71.17
2250	1462.04	256.17	1165.90	304.84	71.12
5867	157.83	35.87	210.76	63.63	71.11
17771	710.83	199.94	1089.58	460.00	71.09

TABLE 5:	CENERAL "		Aliy. Doc	12. Joe 14. sog	1221-5089WO 10. 1793397.1
ldeafffer	NonToxMean	NonToxSD.	ToxMean		
5494	62.28	23.39	104.89	53.79	71.08
18269	729.55	160.51	578.31	143.90	71.07
14996	459.09	95.27	332.24	132.64	71.03
24617	27.48	28.57	-0.27	26.14	71.02
23195	323.13	74.62	242.16	107.55	71.01
22656	113.29	44.19	184.20	80.34	70.99
8728	114.64	32.58	163.70	57.48	70.99
14664	56.90	24.89	82.06	31.36	70.98
22698	286.73	90.38	147.82	160.71	70.97
24053	35.17	15.83	56.32	29.72	70.97
6796	190.54	59.10	259.72	68.76	70.97
5474	783.73	210.50	556.59	211.13	70.96
22820	199.69	49.08	296.30	123.01	70.89
21796	666.75	117.72	898.08	374.38	70.88
25747	41.52	18.23	88.80	66.31	70.85
5443	12.36	13.98	34.29	27.55	70.84
12965	104.50	38.53	152.54	54.48	70.80
12332					
	602.96	147.89	428.95	204.34	70.77
3773	20.24	15.61	47.49	38.34	70.75
5990	310.53	65.78	375.84	76.70	70.73
18302	132.49	67.39	63.56	100.58	70.70
23964	9.67	12.94	24.20	18.71	70.68
9468	65.20	31.76	38.22	29.36	70.68
16631	14.50	12.00	57.40	80.51	70.66
21653	224.19	41.69	303.28	104.55	70.63
9097	272.42	76.73	194.27	78.59	70.61
11259	79.73	54.95	259.20	287.87	70.60
	515.94	100.86	394.77	126.28	70.58
18360	214.50	54.30	161.55	58.13	70.58
4789	35.91	18.80	60.76	25.85	70.56
1798	346.08	90.64	258.66	95.94	70.56
25089	69.92	34.04	119.62	57.66	70.55
24234	170.64	48.79	257.81	150.22	70.55
23270	197.31	46.26	264.06	80.46	70.54
	457.12	115.09	336.46	156.58	70.52
4119	104.13	29.50	142.73	41.65	70.50
18581	239.39	63.97	323.89	102.81	70.48
8188	429.99	130.68	311.19	123.41	70.46
17950	60.85	21.71	84.23	24.05	70.45
11967	1829.61	479.72	1293.20	638.27	70.45
5252	13.79	9.94	24.05	13.59	70.44
22928	235.05	79.02	162.79	64.64	70.38
16684	483.85	102.78	662.86	218.95	70.37
1463	562.00	123.95	959.70	610.46	70.36
	174.57		233.96	68.66	70.36
	94.72		60.02	37.89	70.35
	289.42		458.48	192.79	70.34
7	96.55		69.31	26.59	70.32
	80.36	27.26	110.73	35.05	70.32
	67.79	22.25	109.53	54.61	70.27
	871.73	175.65	1184.82	469.53	70.26
	483.29	121.39	358.54	123.38	70.26
	93.61	35.75	138.74	52.86	70.23
	159.96	46.53	108.93	51.49	70.19
12561	109 90	140:33	י אים חווו	151 49	713 19

TABLE 5:	CENERAL	71 162 ( + N				
ldenditer	NonToxWean	NonToxSD	ToxMean	ToxSD:	LDAScore	
3430	414.54	95.45	587.65	251.37	70.17	
26335	940.03	330.95	625.84	337.88	70.16	
352	77.57	33.06	132.92	75.36	70.14	
23044	213.44	34.48	253.69	53.74	70.13	
17161	1069.69	220.67	1639.92	740.76	70.11	
14352	179.82	26.18	211.25	38.48	70.10	
21993	71.93	19.33	98.79	30.29	70.09	
16756	165.09	40.66	231.09	68.53	70.09	
7537	240.15	64.50	185.74	68.65	70.09	
15986	336.87	70.00	240.73	102.05	70.07	
17256	428.03	84.39	329.02	149.16	70.04	
18151	1182.11	241.37	915.26	244.04	70.03	
18354	372.44	129.56	548.59	224.71	70.03	
19152	155.28	37.87	219.58	85.40	70.01	
8314	44.66	24.23	401.40	1027.58	70.01	
13222	132.87	25.87	162.46	38.58	69.99	
3808	157.93	29.12	224.59	103.04	69.99	
25705	432.30	81.33	560.17	181.12	69.98	
4360	341.32	51.71	279.62	90.37	69.97	
15904	48.14	15.72	70.45	28.37	69.96	
3733	307.48	109.96	502.42	242.20	69.95	
12349	248.84	51.51	206.79	57.13	69.94	
6039	293.57	52.57	404.95	147.79	69.94	
16394	529.95	207.80	998.31	642.96	69.92	
1340	194.50	26.68	172.82	51.16	69.92	
13393	68.65	39.60	120.92	67.73	69.91	
26119	115.29	35.39	165.90	63.73	69.91	
21471	-15.71	27.91	21.66	45.38	69.91	
498	513.15	100.54	694.75	220.14	69.89	
19	324.56	59.40	415.19	125.18	69.89	
22599	40.60	18.16	65.55	34.14	69.84	
7427	235.31	43.69	295.43	88.56	69.83	
16520	82.42	40.09	151.39	91.91	69.83	
15642	389.37	82.84	518.22	172.58	69.83	
1430	171.08	83.75	102.96	99.73	69.82	
7918	36.73	13.76	61.83	31.90	69.82	
13633	276.86	77.72	463.55	259.47	69.80	
7936	155.24	33.42	122.46	38.98	69.79	
15004	132.61	42.50	344.40	385.03	69.78	
15955	791.51	166.06	571.10	228.60	69.77	
1478	366.90	66.96	278.05	99.94	69.75	
7622	55.21	18.42	74.69	23.71	69.75	
22796	7.01	12.41	21.99	21.24	69.73	
17401	821.97	205.41	1398.10	790.55	69.73	
7888	262.03	59.59	349.92	94.63	69.72	
13392	181.47	36.33	245.35	76.20	69.70	
22101	199.60	77.45	118.24	102.76	69.70	
18	61.29	34.62	98.91	45.09	69.69	
21657	407.16	79.73	529.18	177.19	69.69	
20414	124.45	34.92	93.89	36.15	69.68	
3652	40.90	23.02	80.54	43.90	69.64	
12436	40.94	17.34	63.44	29.74	69.64	
15011	90.81	29.75	122.02	40.98	69.63	
3434	300.37	104.25	456.96	211.34	69.62	
21444						
Z 1444	10.25	27.61	65.55	77.70	69.62	

TABLE 5:	CENERAL :		Ally. Doc	ket Ne. 44	921-503900
0-003	NonToxMean!	Monson Con	FarMaan'i		lo. 1793397.1  LDAScore
3493	56.09	16.33	78.09	27.67	69.58
13727	133.95	49.99	86.22	54.51	69.58
17339	2512.73	596.97	1882.04	680.16	69.56
6518	108.28	26.66	143.55	38.12	69.55
14484	468.99	102.51	371.12	113.87	69.50
45	184.62	61.15	131.00	98.51	69.50
4235	383.35	65.78	479.39	109.87	69.47
2350	631.18	75.04	733.81	127.04	69.47
20816	359.20	71.33	589.66	361.06	69.47
20448	51.14	15.80	96.53	91.69	69.45
3608	354.31	96.17	240.45	122.08	69.45
20829	754.23	187.16	1139.64	525.74	69.43
14388	133.84	46.32	189.57	73.63	69.41
13974	269.51	60.19	455.96	331.84	69.41
13611	289.40	97.62	194.81	124.78	69.39
9452	109.85	33.54	243.69	304.19	69.39
19679	744.23	156.00	548.50	220.11	69.38
23471	80.62	27.27	134.19	61.98	69.38
15596	200.04	61.45	269.73	83.16	69.38
17159	662.06	139.21	916.50	373.05	69.37
9114	907.26	198.07	711.93	216.95	69.36
7690	188.30	76.58	286.44	101.61	69.30
4462	896.55	240.26	700.53	283.12	69.30
15146	117.66	45.74	219.43	151.19	69.28
4747	52.09	18.56	76.30	30.54	69.28
4463	171.78	48.48	116.71	64.25	69.26
21275	208.39	53.25	293.29	120.48	69.26
22537	314.16	116.85	217.64	134.70	69.24
21015	224.01	149.40	523.06	502.39	69.21
14184	104.95	35.03	152.30	77.88	69.21
16859	113.00	39.98	171.46	70.52	69.20
13359	18.79	19.20	41.55	29.30	69.17
24192	65.10	27.46	107.06	63.04	69.17
22357	537.91	143.42	683.30	219.11	69.15
22540	1928.78	500.80	1396.93	518.89	69.15
15111	1008.00	256.31	739.45	278.04	69.15
23128	629.03	117.68	522.92	126.85	69.13
9905	702.23	115.37	558.07	156.97	69.13
23387	23.75	24.01	57.01	48.92	69.12
21797	316.03	77.43	447.83	179.03	69.12
20457	401.15	78.89	312.93	100.71	69.12
13954	1425.24	337.03	1039.20	391.69	69.12
2059	134.19	33.99	173.66	52.56	69.11
21125	163.43	45.61	120.34	59.14	69.08
4048	-12.32	8.61	25.98	74.75	69.08
13349	122.00	33.87	171.03	54.95	69.08
20086	103.42	54.54	186.02	112.44	69.07
7414	177.49	39.38	246.64	72.25	69.07
4327	84.49	26.30	133.01	68.89	69.07
19011	389.45	84.42	492.01	130.94	69.04
6384	55.77	19.77	79.31	27.28	69.03
8221	192.95	91.60	123.84	72.63	69.02
11876	100.42	32.61	145.49	59.19	69.00
275	540.79	117.63	450.26	289.26	69.00
19940	19.25	13.33	32.95	17.53	68.99

TABLE 6:	Ceneral "	State of the state	Ally. Dog	22. 2011 2012 2013	1921-5039WO 10. 1793397.1
ldendffer	NonToxMean	MonToxSD	Toxillean	ToxSD	LDAScore.
21895	415.77	107.68	527.63	122.68	68.99
6674	2589.26	592.43	1970.28	559.33	68.97
4330	519.93	146.26	393.68	177.88	68.97
1698	59.46	33.76	154.33	156.35	68.96
6927	351.13	88.63	276.07	87.17	68.95
15879	389.05	88.44	309.88	89.07	68.94
17269	669.21	164.65	510.44	183.69	68.94
809	38.57	18.55	73.18	50.10	68.93
25567	429.75	132.83	636.76	280.62	68.91
6711	46.47	22.83	68.95	25.01	68.91
25777	370.17	112.15	585.45	351.28	68.90
22801	1309.01	233.61	1102.68	241.27	68.88
17447	912.03	226.33	708.62	297.79	68.88
1603	652.04	149.41	516.80	165.06	68.85
20460	363.41	114.33	257.61	112.54	68.84
21145	216.97	60.61	173.14	61.10	68.83
25453	225.18	45.75	181.00	63.32	68.81
14670	1156.99	219.65	1505.97	540.37	68.80
19623	56.27	29.98	87.15	39.31	68.80
12716	167.13	43.68	133.50	41.78	68.80
24236	75.95	22.54	104.28	32.01	68.79
15617	18.52	33.89	39.26	21.38	68.79
3925	498.78	107.84	390.92	113.69	68.77
20449	39.97	25.35	119.71	151.16	68.76
21390	89.77	28.23	115.10	33.69	68.76
23514	434.32	164.14	307.02	151.33	68.74
20849	259.38	58.40	370.11	145.72	68.74
794	224.09	52.71	162.86	64.32	68.71
4592	183.27	30.19	222.63	53.46	68.70
13614	325.22	70.14	423.70	138.23	68.70
12673	32.94	15.97	60.47	35.35	68.69
3125	347.43	89.73	270.34	103.82	68.67
4232	131,63	36.97	170.35	127.98	68.67
1399	187.08	41.04	289.41	156.72	68.66
13930	114.32	44.14	212.08	140.70	68.65
5689	9.09	13.75	27.68	24.99	68.63
2370	1158.46	172.59	949.24	224.94	68.63
4933	93.92	113.34	358.13	386.59	68.63
406	374.38	68.18	306.59	91.47	68.62
22957	165.92	62.59	266.91	150.55	68.62
2768	2026.25	370.26	1657.86	463.04	68.61
24197	243.13	77.12	185.53	85.38	68.60
16650	242.10	65.10	338.01	127.40	68.57
8085	36.42	17.42	58.09	26.97	68.57
1712	167.50	36.63	216.60	72.08	68.57
5565	407.17	100.35	305.41	133.21	68.56
16883	1543.18	301.38	1229.72	308.97	68.55
13622	45.42	26.78	87.87	76.11	68.55
17807	711.63	133.84	948.59	316.04	68.55
8496	39.06	20.93	64.65	32.09	68.53
11559	615.91	118.47	505.06	115.82	68.53
19094	1013.42	192.17	1274.36	327.89	68.53
7584	99.66	69.21	216.92	170.84	68.53
457	268.02	49.06	378.26	164.79	68.53
21105	323.39	54.03	270.87	64.06	68.52

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TABLE SE	CENERAL **		Ally. Doc		1921-5039WO	
90 48				<u> </u>	<u>lo. 1793397.1</u>	
klentifier:	MonToxMean	NonToxSD	Toxillean	ToxSD :	LDAScore 1	
18900	449.75	84.06	557.56	130.48	68.48	
16709	858.46	172.57	709.82	176.49	68.46	
1993	26.13	15.23	53.08	37.27	68.43	
13348	116.50	39.71	170.35	84.06	68.43	
11454	223.14	54.78	315.07	133.93	68.43	
18606	608.53	116.39	789.92	267.15	68.43	
2986	39.62	12.73	54.78	18.98	68.41	
15644	1338.83	225.09	1588.45	345.24	68.39	
22541	3613.59	853.73	2681.23	879.66	68.39	
17905	902.96	243.00	654.49	232.60	68.38	
408	201.66	67.43	144.70	78.36	68.37	
21409	86.43	35.21	119.21	45.92	68.37	
22543	721,16	195.27	540.47	258.13	68.36	
3863	214.88	78.45	158.64	93.71	68.36	
21596	100.77	27.25	132.16	47.14	68.33	
1583	25.58	12.08	46.81	25.12	68.32	
8917	41.59	14.82	56.19	17.88	68.31	
17324	371.15	66.13	297.98	105.05	68.30	
5199	641.61	169.29	484.54	199.84	68.29	
11164	532.49	129.79	382.15	153.36	68.28	
10887	76.37	24.73	54.29	25.72	68.28	
15540	36.28	11.51	64.56	42.69	68.27	
4949	1162.93	273.54	892.52	329.00	68.26	
21024	596.29	101.41	489.27	121.68	68.26	
19085	70.29	20.84	101.53	44.09	68.25	
25718	380.48	63.33	465.71	138.80	68.25	
3981	53.40	27.49	166.56	218.99	68.25	
19939	176.96	53.69	235.92	70.52	68.24	
21305	438.34	113.88	332.58	104.75	68.23	
22833	431.45	106.61	540.94	147.67	68.23	
13310	116.08	48.35	197.32	125.83	68.22	
19187	102.48	30.70	135.61	50.44	68.21	
18011	27.06	22.52	56.30	38.43	68.21	
24895	78.92	42.28	60.83	59.54	68.21	
11563	52.55	31.11	94.44	49.63	68.20	
2506	78.97	20.73	98.29	25.44	68.20	
10434	30.66	16.63	56.30	35.67	68.19	
23546	749.61	138.38	631.19	195.15	68.19	
17104	430.01	79.30	558.85	188.65	68.18	
12587	236.86	55.30	189.70	64.51	68.17	
17316	70.29	31.03	47.27	32.31	68.17	
10464	136.34	32.97	104.50	38.05	68.15	
15185	154.81	45.05	251.81	139.06	68.15	
22689	44.68	18.28	64.87	29.10	68.14	
5855	74.85		52.36	35.41	68.14	
2140	160.37	27.42 40.29	131.23	57.33	68.11	
1510	780.11	196.05	591.05	213.64	68.11	
15313	6.84	9.54	24.57	23.36	68.10	
8972	26.33		47.84	25.93		
2888	26.33 2111.78	18.24	1569.20	25.93 595.26	68.10 68.10	
2888 23834	68.94	515.11 19.78	90.90	31.53		
23834 3082	¥ = 1 = 1				68.09	
	244.35	47.01	302.78	72.37	68.09	
3467 16476	738.89	191.34	549.12	221.95	68.09	
	738.64	159.14	630.49	196.22	68.09	
5819	230.72	47.15	189.99	56.21	68.08	

TABLE 5:	Ceneral' - {	W.	Atty. Docket No. 44921-5039 Doc. No. 17933		
ldendifer	NonToxMean	MonToxSD	ToxMean	ToxSD:	LDAScoro
1942	12.95	13.20	45.54	48.73	68.08
514	4.47	50.55	52.66	58.22	68.08
19768	683.61	138.87	883.43	263.72	68.06
5183	204.36	51.85	284.20	109.64	68.06
24375	107.65	26.73	157.63	66.73	68.05
6059	199.74	47.55	169.09	54.88	68.04
12937	20.23	21.04	62.89	58.77	68.04
3245	97.45	32.09	132.43	48.29	68.02
	376.00	72.62	300.86	98.78	68.02
19469					
22696	72.56	48.08	25.09 163.32	39.70 82.62	68.02 68.01
4355	116.49	44.14			
21579	110.85	35.32	153.51	68.22	68.00
1431	521.93	166.42	374.89	194.57	67.99
9673	66.91	27.02	44.90	26.55	67.99
20257	137.10	42.30	102.53	48.53	67.99
12961	185.53	42.22	151.73	41.05	67.97
22538	338.12	80.15	255.39	90.87	67.97
7243	56.76	22.51	79.45	28.02	67.96
5634	64.78	29.00	96.85	47.59	67.96
17438	62.59	33.01	31.95	40.59	67.96
1581	70.58	17.49	93.61	30.37	67.96
25379	75.47	18.52	100.15	31.59	67.95
2153	153.35	49.73	361.58	346.41	67.94
7499	17.61	8.98	28.61	16.07	67.94
6102	150.29	40.49	187.75	46.70	67.94
3878	479.08	106.98	389.02	107.79	67.93
20122	174.65	39.83	214.44	52.37	67.93
6828	122.12	53.45	207.48	104.75	67.92
11455	106.22	31.64	162.96	86.72	67.92
16058	146.84	40.61	225.40	102.56	67.92
23567	42.81	36.02	114.42	124.08	67.90
19998	290.74	86.07	214.07	102.16	67.80
24054	25.17	14.49	39.46	20.61	67.89
22352	139.84	54.27	253.98	211.46	67.89
21146	119.46	36.34	92.66	39.95	67.89
11791	136.74	46.57	173.47	50.00	67.88
19086	102.38	32.93	153.92	65.34	67.87
13111	235.97	68.33	187.10	77.46	67.86
14959	595.43	107.90	761.75	241.85	67.86
22103	222.38	50.69	294.15	83.02	67.84
1454	110.82	42.51	160.57	70.87	67.83
1844	167.38	35.91	216.33	60.90	67.83
13023	110.03	149.11	607.48	946.55	67.81
22487	34.23	15.90	60.56	35.71	67.80
7543	268.34	96.90	185.92	86.13	67.80
3107	779.30	164.38	696.29	236.36	67.80
8975	102.89	42.50	68.46	48.06	67.80
825	59.44	21.82	42.35	25.50	67.80
4473	192.83	43.69	148.92	66.25	67.78
18109	15.28	14.01	39.23	36.39	67.78
2845	651.40	103.22	768.87	160.95	67.76
11974	247.17	76.60	176.82	86.10	67.73
3547	14.36	11.57	25.42	14.68	67.73
22931	87.38	47.83	52.96	42.09	67.72
7161	46.95	14.21	64.96	24.05	67.69

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TABLE 5: GENERAL Atty. Doctot No. 44921-5039WO							
ldentifier	MonToxMean	NonToxSD	ToxMean	ToxSD	LDAScore ·		
9061	1135.34	236.25	942.16	326.87	67.69		
12331	618.37	134.26	483.61	182.86	67.69		
13962	523.52	110.90	438.13	148.62	67.68		
24277	134.73	41.18	181.65	55.29	67.67		
14790	176.36	78.47	102.86	72.99	67.67		
18528	361.23	136.11	589.25	331.81	67.66		
19665	81.08	33.19	142.12	76.68	67.66		
14242	32.67	14.37	49.07	20.85	67.64		
17407	1713.79	374.66	1443.40	337.67	67.64		
6765	820.06	183.88	653.70	231.97	67.62		
9514	675.01	129.64	570.37	132.48	67.62		
22602	334.13	94.17	237.80	117.01	67.57		
19822	1669.92	376.25	1281.37	430.75	67.56		
9699	58.47	18.16	42.68	19.82	67.55		
12812	99.34	33.83	74.64	38.83	67.55		
24566	200.15	82.45	135.98	77.12	67.54		
17499	24.56	23.09	55.11	35.51	67.53		
18447	1233.88	274.38	958.23	329.75	67.53		
21014	142.85	40.94	210.35	117.97	67.52		
2536	406.73	114.26	323.04	150.73	67.51		

Timepoint(	: ACYCLOMIR ! s): 24, 163 hrs	· 持续在1000	· Alty. De	eket No. 4 Doc.	4921-5089WO No. 1793397.1
ldendfier:	MonToxMean	NonTox&D.	Toxidean :	ToxSD	LD/AScore
25419	159.17	64.32	38.16	8.66	99.48
25415	169.94	67.00	36.68	10.41	99.48
1872	723.76	219.40	182.16	67.65	99.36
17198	814.88	264.22	145.60	82.51	99.14
17567	1172.88	345.04	2623.71	250.73	98.97
14959	616.48	139.00	1288.62	137.24	98.84
20945	896.18	242.10	1896.41	180.47	98.80
16245	387.31	114.26	41.23	45.70	98.80
10887	73.83	25.90	17.83	4.94	98.67
4222	544.00	97.71	1042.92	176.22	98.67
19161	1064.06	296.13	2360.57	327.19	98.63
15626	1281.17	347.65	3250.17	648.92	98.58
11849	701.03	165.94	1608.51	320.36	98.50
20872	832.75	216.84	1896.38	376.01	98.50
15875	1175.87	375.74	2630.93	347.24	98.45
10498	1085.24	333.50	2568.66	334.73	98.45
20884	639.33	257.31	46.55	54.58	98.37
13151	702.17	319.88	2212.94	511.24	98.32
18611	1409.99	440.83	2945.57	350.22	98.28
20885	538.89	188.67	83.65	54.88	98.28
16244	40.33	21.14	-0.26	5.01	98.24
16918	1172.71	382.43	2977.59	742.16	98.15
3027	1121.82	319.93	2267.04	262.71	98.15
20056	309.42	59.71	118.77	41.29	98.11
16205	932.31	252.05	1896.76	307.48	98.02
20812	1107.00	305.73	2296.29	293.56	97.98
14384	375.87	76.79	604.80	58.76	97.94
24615	809.56	214.82	1799.64	368.34	97.94
17524	1175.90	282.46	541.39	119.09	97.85
20839	1037.63	274.92	2191.65	391.42	97.85
18250	1088.85	307.06	2058.50	257.28	97.77
22846	1492.71	284.92	855.87	120.77	97.68
3026	512:85	99.35	933.31	159.19	97.64
13647	864.69	256.24	2095.09	431.00	97.64
17563	1195.18	331.95	2542.06	387.04	97.59
17473	422.91	93.66	796.08	169.41	97.59
20746	673.25	126.38	1181.14	211.43	97.59
19359	1061.61	314.08	2336.47	601.88	97.51
15201	1478.32	513.09	3558.35	808.75	97.47
15052	1433.93	492.46	3597.61	980.31	97.42
4490	76.73	73.42	270.49	135.30	97.42
2696	773.00	225.06	1860.28	390.37	97.42
22552	313.47	90.91	645.46	155.87	97.38
1694	1139.80	326.74	2255.77	345.62	97.38
19824	224.99	67.29	73.65	27.54	97.34
16333	133.41	38.84	45.56	15.40	97.16
16150	495.73	119.09	217.15	50.78	97.16
15928	157.91	59.34	354.44	52.65	97.16
15335	424.77	103.56	772.54	127.56	96.99
15202	788.60	313.98	1866.58	266.92	96.99
18749	116.41	42.26	34.59	11.87	96.95
16164	1075.08	276.06	1925.19	293.15	96.86
20088	384.13	78.71	185.57	40.67	96.78
23989	1057.77	294.07	466.66	116.46	96.74
24048	695.95	214.73	269.65	68.66	96.65

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TABLE 5A: ACYCLOVIR			Althy. Do		1921-5032110 No. 1798597.1
ldentifier.	NonToxMean?	NonTexSD	ToxMean .	TOXXD.	LDAScore
24577	1170.09	364.08	2400.41	380.56	96.65

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TABLE SE	E ACYCLOVIR	13 700	ÁWY. Do	ka 100. 440	21-5030W
	(s): 6 hrs		in the second	'-Doc. N	<u>o. 1793897.'</u>
ldendlier	NonToxMean	NonToxSD:	ToxMean :	TÖKSD <sup>VI</sup>	LDAScore
2572	1079.22	272.72	292.63	34.53	99.96
657	325.86	85.70	825.82	55.34	99.96
15174	582.65	154.01	1160.30	40.29	99.96
22060	120.39	46.22	489.85	39.32	99.87
21151	108.89	64.20	1068.35	133.62	99.87
17546	542.45	131.44	1300.18	82.92	99.83
8477	528.52	158.91	1301.77	46.70	99.83
16993	147.03	72.47	5.04	12.16	99.79
10667	41.39	38.71	-236.50	27.34	99.79
3822	915.99	266.90	2473.92	69.91	99.74
17157	50.71	97.99	182.37	23.19	99.70
4532	266.41	75.57	62.22	7.77	99.70
15004	160.24	140.85	1576.85	132.63	99.70
4832	149.39	47.92	32.65	11.70	99.70
11836	219.06	64.52	69.22	8.46	99.61
24390	165.64	111.19	-250.24	60.63	99.61
24200	421.04	138.48	1131.90	38.93	99.61
15002	137.74	85.32	904.65	69.55	99.61
3713	1141.71	271.69	457.32	36.48	99.57
6778	109.70	31.47	262.53	25.12	99.57
7936	149.06	36.24	49.64	5.41	99.57
13542	446.95	133.65	59.60	28.78	99.57
22385	107.82	53.29	22.50	3.64	99.57
20700	74.63	363.62	3153.73	549.12	99.57
15190	1801.09	1118.86	7715.59	404.27	99.53
20698	-0.10	63.70	407.01	114.99	99.53
9757	408.35	98.75	159.69	13.35	99.53
15077	87.92	41.66	6.25	3.82	99.53
12301	58.09	29.22	219.75	30.79	99.53
3304	881.73	218.32	247.94	48.65	99.53
24041	11.98	28.98	230.57	61.01	99.53
19780	47.97	40.89	251.97	31.79	99.53
12899	-9.55	17.51	146.15	30.06	99.49
23387	29.40	30.63	203.21	32.17	99.49
20699	86.60	192.11	2061.40	288.42	99.49
606 8874	-48.26	30.91 59.95	77.22	17.44	99.49
5475	118.63		395.15	33.95	99.49 99.49
	445.78	146.14	115.95	22.16	
985	21.00 258.96	43.98	281.44 71.35	50.96	99.49 99.44
24243	104.47	69.54		13.38	99.44
6057		44.96	358.76	52.20 24.52	
1892 275	-6.30 519.62	35.30 162.35	58.25 80.95	30.90	99.40 99.40
2695	210.32	124.89	613.77	27.62	99.40
7804	1764.46	393.34	898.61	69.66	99.40
20701	32.96	54.09	404.95	132.78	99.40
12420	23.45	48.04	-131.74	28.29	99.40
15003	33.26	83.63	776.16	111.38	99.36
24564	568.95	174.41	66.56	19.02	99.36
24246	300.44	96.46	678.79	40.80	99.36
9423	939.03	252.01	2035.02	137.31	99.36
9423 23151	380.64	125.08	82.73	157.51 15.55	99.36
9071 2905	48.03 244.95	25.31 103.58	2.95 780.68	1.90 56.20	99.36 99.36

TABLE SE	: ACYCLOVIR	** *** ***	AMW, Da	alson (No. 22)	921-5039WO
Timepoin					o. 1798897.1
		Conforce	ToxMean	ToxSD .	LDAScore .
5931	182.37	66.37	9.61	8.36	99.36
24042	18.74	67.93	772.42	198.67	99.36
17765	1285.78	452.80	2557.67	63.52	99.31
17470	102.21	54.04	410.26	61.20	99.31
2010	32.91	314.74	355.60	90.97	99.31
20848	510.27	150.82	1095.65	24.39	99.31
17591	385.36	90.04	744.25	62.21	99.27
1340	192.09	49.88	96.02	6.73	99.27
7806	51.84	19.09	122.32	8.65	99.27
7493	78.12	36.73	174.58	4.92	99.27
20035	180.04	101.54	817.96	80.03	99.23
19657	3.30	17.67	125.30	19.29	99.23
24563	309.99	99.44	4.82	17.01	99.23
22453	171.10	46.39	60.55	10.10	99.23
23995	161.66	57.89	380.58	31.88	99.23
15191	1989.62	1126.31	8988.79	1157.81	99.23
11326	332.40	95.69	94.87	14.33	99.23
7586	793.77	201.98	306.02	29.21	99.23
2392	154.00	87.41	1138.50	400.02	99.23
4205	222.66	72.63	591.81	54.59	99.23
8245	54.69	20.70	113.91	5.63	99.23
16324	194.65	61.24	42.04	11.21	99.23
12404	105.63	62.52	662.04	167.20	99.23
7639	753.14	166.01	339.14	44.82	99.23
20895	331.67	100.56	50.78	24.52	99.19
22018	158.66	41.98	360.67	50.74	99.19
3823	524.10	147.80	1250.81	97.60	99.14
6477	13.58	161.23	99.71	26.48	99.14
223	11.18	17.65	124.61	25.10	99.14
15146	130.31	69.77	744.71	139.52	99.14
25069	134.29	60.66	25.21	12.36	99.14
3431	1503.29	617.93	3867.63	202.46	99.14
3271	576.75	119.79	239.69	44.71	99.14
		47.50	386.77	134.53	99.14
6054 20202	26.29 627.69	194.14	49.29	62.88	99.14
25546		139.13	145.65	40.29	99.14
	473.74			115.29	99.14
19781	113.50	55.43	454.62		99.14
22488 10281	58.52 168.73	53.30	334.10 1702.50	50.62 591.27	99.10
		157.24			
9452	125.58	75.70	1560.61	720.48	99.10 99.10
2153	182.83	143.86	1201.51	175.46	
13745	27.62	27.50	297.57	96.36	99.10
1218	198.28	37.55	92.30	12.70	99.10
15042	63.76	42.44	353.57	60.19	99.10
9521	95.05	24.96	222.10	33.80	99.10

TABLE 5C Timepoint	: ADR (s): 120, 163 hrs	Byd Carlotte	Aliy, Do	(1) (Do.) 1. 200	4921-593900 Xo. 1793397.1
	MonToxMean	NonToxED .			LDAScore
1688	5353.71	3830.70	26.75	39.23	99.44
25469	1577.10	747.53	25.91	13.98	99.44
1684	2831.22	1612.49	24.53	31.27	99.44
17829	2235.92	1102.19	68.14	58.70	99.44
25468	2186.32	1123.33	11.47	13.96	99.44
26150	783.82	532.35	-38.06	15.15	99.40
1687	1894.26	855.11	45.95	32.94	99.31
1685	9226.22	7079.05	58.61	94.83	99.31
1689	4411.94	2221.14	43.26	28.59	99.31
17832	1976.64	870.20	17.22	14.67	99.18
19358	792.56	328.04	6.04	46.93	98.71
18907	102.84	49.44	17.51	7.82	97.33
25467	636.86	169.13	1263.84	257.87	97.25
4011	457.30	195.33	953.88	244.47	96.78
14199	71.52	35.30	26.74	5.48	96.09
2852	49.29	27.79	19.72	2.87	95.92
21140	109.12	47.83	38.53	9.71	95.83
4594	63.32	30.73	22.33	5.88	95.44
7089	102.25	41.59	48.02	7.26	95.40
2984	582.52	185.78	258.99	70.15	95.27
1831	49.81	23.36	10.63	6.34	94.67
25705	455.64	115.95	612.52	59.36	94.45
16109	414.49	75.48	556.38	45.14	94.28
11165	529.31	155.75	250.39	51.44	93.98
19237	77.59	39.42	10.97	14.64	93.68
16401	1239.09	805.30	2322.72	497.80	93.68
109	547.11	293.37	1681.21	571.81	93.63
4312	77.34	39.04	127.17	10.27	93.51
16400	580.43	474.95	1090.34	298.55	93.42
18794	138.50	77.18	48.95	11.54	93.38
7489	81.80	32.11	25.62	12.02	93.34
2586	52.04	30.18	14.65	5.97	93.04
17742	1059.53	304.09	1669.92	253.17	92.99
956	54.64	39.22	1.90	10.80	92.78
17563	1201.38	349.79	1590.38	101.68	92.69
2125	78.10	82.13	-4.59	19.58	92.69
24844	32.09	22.37	8.57	2.19	92.65
16676	38.73	27.29	17.84	2.42	92.61
19189	60.60	62.41	14.86	7.74	92.61
16521	285.39	89.91	428.27	70.75	92.56
14430	34.74	32.18	3.43	3.27	92.48
1301	325.54	286.68	14.24	17.87	92.43
21006	55.98	36.26	16.33	6.58	92.39
23778	69.71	34.49	24.74	8.89	92.26
2812	193.71	46.19	284.99	38.81	92.22
16407	459.56	105.59	825.37	208.72	92.12
16426	280.85	109.78	118.35	49.48	91.79
24232	160.98	60.26	72.06	20.28	91.66
6059	193.61	50.50	116.52	21.50	91.40
17234	634.83	173.83	432.41	36.23	91.27
13025	335.88	84.38	224.82	24.51	91.23
20757	411.95	220.62	771.74	157.51	91.09
10076	105.84	50.96	140.17	10.04	91.06
4010	961.35	403.18	2024.17	546.67	91.05
22220	147.73	137.94	463.05	162.91	90.96
9644	-4.86	27.32	39.61	11.58	90.93

TABLE 50	8: ADR ((s)): 120, 163 hrs	)R - Athy. Do 120, 163 lws			ocket No. 44921-5089446 Doc. No. 1798397.1		
ldentifier 1 muesem	MonToxMean .	र व		Toxed .	LDAScore .		
8597	240.84	58.03	315.06	30.21	90.89		
16582	56.67	19.30	29.31	5.28	90.89		
1321	510.50	316.91	1496.60	371.84	90.88		
14337	211.54	44.52	148.64	18.05	90.84		
19191	1011.62	281.12	631.62	94.67	90.76		
20716	652.51	142.58	1029.68	128.61	90.75		
8017	188.58	76.89	406.11	152.05	90.66		
18502	670.14	243.60	313.44	111.24	90.63		
2782	214.23	97.42	522.66	132.70	90.62		
13354	88.85	57.76	34.85	9.49	90.50		
22696	62.39	50.49	-5.66	12.94	90.50		
4242	749.55	193.32	1337.17	268.80	90.49		
12660	71.28	22.64	44.42	5.74	90.46		
15892	18.01	22.79	36.39	7.65	90.46		
25517	39.47	33.13	2.75	7.99	90.41		
22697	59.68	40.43	15.77	10.73	90.33		
16448	129.58	38.04	43.90	19.88	90.32		
1058	75.84	35.86	30.65	8.83	90.24		
7863	1200.90	307.30	1386.51	55.05	90.24		
11967	1725.17	550.50	1088.97	237.35	90.20		
516	55.59	33.01	17.20	9.40	90.11		
25736	24.77	16.54	7.84	4.16	89.98		
6544	53.15	110.52	379.03	173.46	89.89		
21651	32.42	26.38	7.38	3.39	89.85		
16581	39.86	19.57	17.01	3.68	89.72		
2607	218.90	50.79	175.06	11.54	89.55		
15247	637.26	192.10	1113.60	210.08	89.41		
6691	119.56	54.62	32.51	16.76	89.41		
20702	300.67	70.50	198.62	33.60	89.38		
10109	1044.97	289.50	1362.38	117.72	89.34		
24040	557.97	233.98	196.88	87.97	89.29		
1169	90.18	28.72	92.58	4.98	89.21		
5421	279.85	96.20	162.53	31.31	89.21		
19244	1224.80	382.60	1678.75	173.86	89.17		
3015	2307.62	994.19	2930.38	184.09	89.12		
21695	60.82	36.14	4.02	14.39	89.03		
11218	102.70	37.49	47.65	19.31	88.95		
21766	286.32	76.11	204.08	26.91	88.95		
494	698.84	215.82	1186.69	207.80	88.86		
24528	61.08	25.93	19.77	8.13	88.81		

	E)): 360 hrs	16 的转换 16	- Ally. Do		9921-5039VV Vo. 1793397.
	NonToxMean	<b>Deminary</b>	ToxMean	ToxSD -	LDAScore
6360	7.76	5.80	30.12	3.08	99.36
18826	1069.51	321.45	473.21	31.01	99.32
24886	1264.06	371.77	2165.64	63.29	99.27
6517	233.00	158.96	437.46	12.19	99.19
16576	111.85	41.47	67.47	0.61	99.19
22846	1490.00	287.46	852.52	44.29	99.10
2708	383.37	87.00	425.82	1.07	98.97
14349	413.99	144.50	244.25	2.46	98.97
13023	187.03	420.15	-22.68	5.86	98.85
6585	653.17	368.20	239.73	12.54	98.76
15093	35.54	16.49	-7.39	3.34	98.76
25066	136.51	58.55	34.09	4.82	98.72
21796	696.51	210.24	1145.40	47.75	98.67
3610	1195.23	334.91	780.10	28.06	98.67
24236	80.80	27.74	39.65	1.30	98.67
16156	858.19	319.87	3220.95	1137.23	98.59
17672	2630.76	734.18	3325.88	12.22	98.59
472					
	658.60	175.52	1275.16	135.82	98.59
15462	86.01	35.25	28.41	2.70	98.55
10159	7.63	18.34	30.64	0.79	98.55
457	284.29	87.14	421.47	22.09	98.42
22093	-21.77	38.66	56.32	5.98	98.37
5212	189.25	67.72	0.93	13.47	98.33
11368	20,04	24.02	29.17	0.30	98.29
22731	24.04	24.97	9.37	0.65	98.29
23313	404.59	87.09	292.34	2.67	98.29
25178	4.72	6.91	30.15	9.22	98.25
11561	389.44	87.17	225.68	12.21	98.25
14120	740.64	221.38	1485.37	218.95	98.20
4622	608.46	110.69	956.12	79.60	98.20
12894	141.35	34.03	72.48	5.99	98.12
3447	33.98	17.04	11.74	0.97	98.03
1410	99.49	46.40	23.57	5.02	97.99
22103	235.14	64.79	449.04	43.64	97.99
14185	204.58	95.56	321.83	10.61	97.99
24770	233.44	86.68	44.57	16.38	97.95
21044	24.56	22.71	-11.37	2.16	97.95
24721	203.93	53.62	144.06	2.18	97.95
20184	11.29	9.18	20.17	0.35	97.95
6062	182.74	59.18	106.49	1.72	97.90
16172	467.00	120.07	308.58	10.28	97.86
19731	225.58	214.69	63.47	15.21	97.82
16155	1075.32	410.99	3024.24	951.97	97.82
5425	85.43	33.27	153.80	5.81	97.82
1463	620.25	296.25	1592.90	460.18	97.78
2696	777.90	238.27	1766.44	260.04	97.78
2126	223.21	75.66	478.73	56.24	97.78
16245	384.42	117.13	589.67	20.00	97.73
4683	211.56	40.44	323.17	13.38	97.73
11590	276.38	78.94	238.32	1.35	97.69
556	82.41	35.72	33.35	5.40	97.69
10241	67.50	27.73	4.65	11.47	97.69
275	516.42	162.40	1038.56	193.69	97.65
10784	24.89	30.12	-21.79	6.29	97.65
5523	30.10	14.87	8.53	1.41	97.60
4467	656.82	156.93	1236.28	198.60	97.60

TABLE	BD: AY	Professional Profe	Ally, De		4921-5039W
	a <b>((s)): 3</b> 60 lars 🔏				<u>No. 1798897.</u>
dendifie	MonToxMean	NonToxSD	Toxillean	ToxSD :	LDAScore .
24042	21.86	84.61	58.64	10.50	97.56
15135	706.76	182.37	1034.39	31.17	97.52
6790	63.12	24.62	19.35	3.71	97.52
6743	1405.82	280.92	2262.37	206.08	97.52
6351	45.29	26.36	88.65	2.94	97.48
18942	-11.45	10.37	24.19	16.98	97.43
6726	393.51	104.57	242.70	10.50	97.43
9808	30.77	14.74	50.69	1.63	97.39
21078	567.53	143.04	363.30	11.51	97.39
22619	371.47	90.93	316.17	2.78	97.39
1058	75.62	35.90	24.89	3.27	97.39
22692	209.08	63.65	106.95	5.50	97.39
21914	404.11	71.79	635.41	66.12	97.39
22063	68.58	25.03	47.50	0.52	97.35
1162	10.60	37.16	138.81	40.04	97.35
15224	689.92	152.18	1138.23	103.80	97.35
24178	2.75	9.42	20.42	4.02	97.31
20891	140.77	49.29	78.20	3.12	97.31
17393	145.61	59.87	87.56	1.63	97.31
17061	557.85	95.17	904.28	161.35	97.22
21656	54.49	25.08	22.60	1.43	97.18
23651	656.34	623.55	2317.09	936.44	97.18
2357	76.01	23.05	69.48	0.72	97.13
18130	378.79	74.65	591.90	50.88	97.13
23898	10.17	6.54	30.37	7.27	97.13
9363	89.83	29.45	164.93	13.77	97.09
2920	78.42	29.88	124.28	3.10	97.09
21930	597.55	127.69	1108.70	256.19	97.05
12770	600.59	229.99	230.85	29.99	97.05
23799	146.92	43.68	75.83	5.19	97.05
1757	23.41	13.46	-0.34	3.13	97.05
18419	1317.37	373.39	2669.33	536.46	97.05
7023	364.44	77.23	413.76	3.42	97.01
5811	35.76	18.86	52.44	0.86	97.01
1529	290.79	62.32	164.72	18.30	97.01
15259	227.54	56.59	163.79	2.45	97.01
14095	379.89	98.99	246.75	8.11	97.01
17107	2200.10	722.73	4177.24	487.81	96.96
3393	76.83	46.83	166.60	16.98	96.96
15411	305.14	91.59	162.75	9.40	96.96

<b>Timepoin</b>	: BEA (6): 6, 24 hrs			22 .cV1 fext 21 .sod	921-5039WC 10. 1793397.4
	NonToxMean:		ToxMean		LDAScore,
21011	154.85	315.31	689.68	175.67	98.32
21015	271.80	338.52	933.97	202.57	97.98
21013	214.58	340.35	710.95	153.21	97.68
22057	349.60	55.08	477.85	22.42	97.33
8477	529.15	164.21	876.56	49.54	97.03
23849	285.73	136.63	521.70	61.30	96.65
15969	339.58	71.02	574.34	94.47	96.47
5901	92.67	50.17	176.54	31.37	96.43
17034	885.84	144.51	1193.98	93.26	95.36
23140	172.19	53.17	288.43	107.64	94.67
6143	560.24	135.28	861.03	122.25	94.20
22931	79.76	48.36	19.97	4.03	94.15
13608	21.70	23.78	64.61	13.40	94.07
3167	308.80	70.69	438.24	41.83	94.07
17771	769.01	307.47	1086.30	71.95	93.98
10477	87.73	37.06	137.33	14.74	93.42
17563	1206.59	350.63	917.80	32.07	92.99
3551	440.44	98.71	307.06	31.45	92.69
22885	1347.43	493.33	2161.55	380.96	92.61
8515	262.49	109.22	415.39	29.53	92.52
20745	471.03	70.08	354.88	30.48	92.30
4748	110.75	127.98	202.78	32.60	92.18
8639	368.78	99.86	530.10	59.33	91.92
14874	50.39	17.11	78.62	12.99	91.66
21625	2492.78	1106.79	1806.41	173.96	91.53
2729	638.00	170.57	841.33	45.73	91.53
6844	124.24	58.33	32.11	26.05	91.53
19993	2317.82	568.48	3182.90	249.42	91.36
10742	62.40	27.77	27.67	6.47	91.32
8205	398.00	113.24	583.05	83.76	91.23
17400	121.53	78.34	254.55	53.39	91.23
1698	73.83	75.94	197.90	43.39	91.22
3557	107.65	39.24	177.58	40.40	91.14
18905	1365.13	302.42	1751.48	71.12	91.06
7276	72.89	27.71	30.30	10.38	91.01
15111	954.53	281.39	581.40	91.29	90.97
	800.42	430.77	1096.37		90.80
	2620.17	1190.40	1912.67	180.40	90.28
	181.12	72.28	270.61	28.36	90.28
	369.25	95.44	241.19	39.11	90.24
	291.01	74.63	398.13		90.15
21014	155.16	80.93	268.20		90.15
4232	137.37	62.35	64.91		90.07
	189.73	55.56	278.09		90.03
	342.46	95.82	447.07		90.03
	98.56	37.96	208.10		89.97
17107	2202.25	730.97	2581.41		89.72
	29.03	14.66	50.58		89.68
	463.39	111.03	329.66		89.68
	29.07	15.66	43.28		89.64
	119.24	35.99	215.47		89.63
	38.97	27.26	103.83		89.63
	4123.05	2816.44	2751.13		89.60
	74.49	49.29	192.85		89.59
	728.25	203.79	1236.56		89.59
5811	35.97	18.81	13.37	6.74	89.47

TABLE	5E: BEAM IN	學主學學	Ally, Do	ocket No. 4	21 No. 44921-5009WC		
ogenill	int((s)): 6, 24 hrs	3		: Doc.	No. 1798397.		
ldendlite	er. NonToxMee	n KonToxSD	ToxMean	ToxSD:	LDAScore		
3081	387.79	84.55	253.14	37.34	89.46		
7895	997.72	308.71	1503.83	263.73	89.46		
3924	183.13	68.64	101.62	16.04	89.34		
24181	85.08	27.22	145.70	16.84	89.33		
2752	405.86	139.92	593.99	60.88	89.33		
1159	886.55	231.02	611.65	64.43	89.29		
24388	188.48	72.47	251.08	30.81	89.29		
3926	176.00	56.73	103.17	18.22	89.25		
18981	231.55	65.64	189.11	9.52	89.21		
7838	19.58	15.00	21.80	3.33	89.17		
24537	528.52	104.62	396.25	38.65	89.08		
2688	173.21	54.36	243.95	28.16	89.08		
19484	184.45	70.04	320.46	37.72	89.03		
22855	561.72	144.30	886.81	141.20	89.03		
12979	391.37	216.96	627.81	88.47	88.94		
7223	88.64	27.62	152.72	24.63	88.94		
23159	416.48	85.49	537.44	47.74	88.91		
13563	1028.27	255.15	1603.62	170.06	88.86		
3696	42.57	32.72	106.32	10.80	88.86		
2855	920.64	212.77	1412.67	261.05	88.77		
3580	9.48	10.46	22.09	6.90	88.74		
12629	65.11	30.82	27.44	7.55	88.61		
18810	1188.71	319.49	906.85	60.20	88.52		
18770	1131.01	331.57	887.70	58.94	88.48		
19577	494.98	92.34	376.82	38.52	88.48		
18891	1378.10	409.91	1823.58	193.46	88.48		
7914	1537.05	507.11	1256.25	91.53	88.44		

TABLE SET	CAPTOPRIL'. (S): 336 brs		· · · Atty. Doc	4:.0K 1915 1	3921-5009VV Xo. 1798397.
	NonToxMean		Mark Mara		LDAScore
23859	-10.09	17.25	58.28	12.00	99.70
23639 1522	181.53	92.60	-79.60	14.77	99.40
		46.93	11110.08	605.52	99.10
24668 19287	76.16 161.27	40.70	265.00	9.72	198.84
735	125.45	37.81	123.72	0.37	98.50
735 1348	29.21	17.75	0.23	1.09	98.12
16260	66.53	18.90	82.33	0.49	98.07
24696	69.96	48.08	I-11.83	7.33	98.07
826	182.43	53.09	63.46	18.28	97.90
15851	203.67	153.22	36.02	16.84	97.69
19120	32.71	25.65	-8.80	2.19	97.43
1480	253.73	66.75	112.96	18.69	97.43
18659	51.26	29.25	80.08	1.30	97.43
15420 2830	59.26 654.10	52.41 146.54	-14.25 933.86	3.04 42.78	97.39 96.92
2830 2658		236.04	443.07	141.79	96.88
2658 17937	891.04 86.63	42.53	-12.26	22.60	96.83
	146.26	1	61.17	17.32	96.70
10108 1223	191.43	35.48	289.39	15.78	96.70
	28.62	47.65			96.66
16048		52.28	-8.09 40.49	3.07	
10774	26.49	16.73			96.62
16944	848.22	191.45	550.56	29.83	96.58
546	173.90	50.96	271.42	13.74	96.53 96.53
12819	184.28	47.07	239.54	3.32	
5735	56.51	21.12	63.63	0.57	96.45
7956	27.42	11.15	39.67	0.69	96.40
12332	567.22	177.99	328.76	21.43	96.32
18346	273.04	62.53	138.13	21.45	96.32
16425	20.91	30.81	-13.41	3.05	96.23
8426	54.76	23.35	27.91	1.50	96.19
9964	14.13	28.09	41.16	1.54	96.15
15395	797.12	155.79	610.46	12.19	96.02
21458	229.75	104.67	360.26	20.40	95.93
15259_	227.63	56.54	154.42	4.47	95.93
11057	33.19	29.92	61.96	3.13	95.89
397	116.22	33.32	88.25	1.44	95.89
20429	108.55	34.07	193.71	39.16	95.85
12333	218.47	76.94	109.09	10.32	95.85
	64.58	30.66	134.34	14.35	95.76
20833	1255.87	351.77	1350.26	16.51	95.68
10673	62.50	35.24	48.56	1.93	95.63
9518	29.88	23.15	73.23	8.73	95.59
5630	77.86	48.50	150.84	8.45	95.59
16036	64.27	20.66	37.81	2.46	95.55
23773	214.43	85.23	94.48	13.72	95.51
11817	64.91	20.17	98.04	3.96	95.46
13976	459.29	377.97	122.98	19.90	95.46
14926	95.90	28.06	158.69	14.69	95.46
21633	302.73	119.13	151.23	11.45	95.42
910	58.30	22.93	35.87	1.63	95.42
11203	75.66	25.37	58.05	1.05	95.38
16562	188.78	45.14	125.67	5.83	95.29
6362	63.63	39.69	-15.88	19.50	95.25
23237	89.94	41.57	97.86	1.24	95.25
5384	41.70	44.55	1.71	2.18	95.25
22665	128.49	29.89	159.98	3.47	95.21

TABLE SF: CAPTOPRIL Atty. Doctot No. 44921-503300							
vime point	<u>((s): 336 hrs</u>		Doc. No. 1793397				
ldendifer	NonToxilean.	NonToxSD	TextMean	TOXSD .	LDAScore		
6581	76.47	26.45	43.08	2.63	95.12		
260	417.04	114.29	636.83	72.47	95.12		
24814	171.62	33.74	127.03	5.19	95.12		
13682	178.68	62.82	61.54	20.17	95.08		
15028	346.53	107.46	569.31	126.83	95.08		
17439	218.65	47.89	292.03	10.02	94.99		
15797	20.60	17.76	-7.25	4.56	94.95		
17549	1304.87	367.92	1416.98	24.18	94.95		
17923	66.78	23.31	48.46	1.01	94.95		
23360	178.74	46.59	218.52	2.99	94.91		
20099	81.73	30.45	123.33	3.88	94.91		
19327	89.68	29.52	50.76	3.50	94.86		
5786	125.64	46.92	48.44	13.78	94.86		
9929	531.71	124.53	680.04	14.58	94.82		
2831	619.77	172.12	917.69	61.75	94.82		
10477	88.24	37.19	51.43	2.96	94.82		
21013	217.62	342.33	442.35	95.19	94.82		
21651	32.33	26.35	2.01	3.21	94.78		
19527	47.24	56.67	112.09	11.81	94.78		
1921	178.67	59.48	97.23	10.49	94.73		
8988	56.52	38.39	8.71	5.65	94.73		
6766	481.24	157.08	653.99	16.43	94.73		
18862	47.30	24.54	31.00	1.20	94.69		
15470	328.11	71.27	198.29	29.91	94.69		
3288	10.56	13.80	41.78	12.82	94.69		
23109	2081.66	927.60	2211.62	60.64	94.61		
7197	197.55	84.70	290.53	17.88	94.56		
7279	201.88	88.54	108.84	9.39	94.52		
19581	48.08	32.46	66.08	3.68	94.48		

TABLE 5G: CARBOPLA		in Ally. Do		Miy. Docket No. 44821-508	
<u>Minepoint</u>	( <u>s)):</u> 6 hrs	- 3			<u>lo. 1793397.</u>
dentifier-	NonToxMean	NonTox&D:	ToxMean.	TOXSD	LDAScore
6262	739.41	208.31	1532.53	76.80	99.61
24048	689.96	212.19	1411.28	55.30	99.36
17089	1547.81	626.59	4737.22	696.74	98.93
16081	115.61	379.88	645.20	213.95	98.54
25777	403.77	181.40	901.96	112.12	98.37
4933	134.08	204.01	525.52	82.57	98.20
7476	90.92	58.14	272.77	23.70	98.11
15171	241.90	97.44	403.05	21.96	98.03
24049	1518.47	439.97	2590.21	123.80	98.03
16080	44.66	251.23	378.60	161.27	97.99
10093	342.04	117.93	656.06	50.76	97.86
1069	1820.60	698.77	1513.87	16.71	97.64
25480	92.27	34.63	148.37	3.30	97.43
6647	510.34	159.21	1020.51	105.54	97.39
7247	504.54	113.43	793.61	51.11	97.34
18532	285.39	90.75	560.36	75.34	97.04
4067	123.93	59.96	232.57	36.85	96.92
23449	124.24	104.63	362.40	83.14	96.83
8314	95.89	403.64	202.84	47.87	96.79
14159	87.59	36.45	200.11	36.34	96.74
18280	584.52	131.77	819.56	51.87	96.70
23314	71.21	275.95	495.11	153.82	96.70
			471.75	21.93	96.66
3816	326.31	77.12			
17329	215.35	107.06	443.46	37.86	96.62
5461	193.57	116.65	442.55	77.30	96.57
22501	257.26	67.93	377.18	25.53	96.53
15277	900.30	154.78	1210.05	42.20	96.49
23538	101.09	71.79	256.02	74.72	96.44
8849	222.08	71.82	422.51	61.76	96.36
17779	1949.63	787.42	1501.46	41.41	96.36
23574	2277.50	970.11	1768.74	46.20	96.23
1127	1190.78	434.96	1227.98	24.14	96.14
4154	247.57	87.35	387.82	17.78	95.80
3471	80.41	35.57	126.92	4.34	95.76
22211	768.41	165.76	1038.58	34.89	95.72
21815	248.67	55.97	320.59	9.43	95.67
18597	521.69	163.32	851.48	104.45	95.63
2196	564.46	104.22	713.81	13.18	95.54
13598	350.22	110.18	570.66	47.31	95.46
16895	2022.10	903.47	1796.87	31.07	95.42
6522	571.58	153.62	693.92	15.58	95.42
8652	228.95	114.23	482.75	43.58	95.37
20026	64.36	24.25	120.87	11.23	95.33
15192	169.06	132.74	389.95	89.37	95.29
1622	2067.46	903.52	1573.48	71.56	95.29
3823	526.02	154.25	801.75	71.28	95.20
5989	269.96	71.53	419.90	36.98	95.12
3434	324.23	140.30	584.57	69.17	95.07
3156	1279.17	207.18	1810.46	187.54	95.03
10818	464.74	186.59	181.34	44.19	95.03
5575	86.94	36.56	34.41	8.85	94.99
11174	54.05	51.84	117.20	14.24	94.99
14425	213.74	79.18	349.63	37.59	94.94
16417	72.79	29.59	142.55	15.55	94.90
17771	769.30	306.35	1273.57	156.68	94.86

TABLEGO	: CAREOPLAT	TX):	Aug. Doc	ket No. 4	3921-5039WO
iniogenii	(s): 6 hrs			Dog. [	No. 1793397.1
ldentifiers	MonToxMean.	KontoxSD:	ToxiMeen -	Toxed:	LDAScore
3431	1514.30	636.90	1297.11	34.77	94.82
21462	258.49	59.82	358.44	18.51	94.77
3822	921.02	284.55	1300.83	99.42	94.73
15190	1824.97	1183.78	2141.03	82.58	94.69
19111	1604.90	429.51	2027.13	89.10	94.64
14906	383.54	73.03	535.04	39.09	94.47
13144	-27.27	17.64	-54.47	5.38	94.43
18142	1995.09	839.14	1819.48	43.33	94.39
13634	827.03	282.41	1137.48	107.16	94.34
2350	646.60	103.17	832.07	60.88	94.30
1537	31.35	46.10	59.58	13.80	94.26
13239	110.05	49.12	151.36	7.79	94.17
20864	1582.67	662.32	1722.73	33.76	94.13
12402	540.97	155.59	755.78	32.87	94.13
2424	585.64	132.80	807.06	45.48	94.13
15106	1894.10	713.95	1463.01	37.13	94.09
12569	402.63	145.28	719.92	106.90	94.04
2022	270.40	55.81	378.75	24.92	93.83
13633	310.40	151.71	490.70	80.01	93.79
22197	123.97	52.28	217.39	36.02	93.79
13874	42.03	18.39	51.72	2.31	93.74
3533	212.11	64.89	298.00	11.86	93.74
5985	44.47	68.11	62.07	10.39	93.74
21643	1185.08	370.10	960.79	22.49	93.74
5089	70.77	28.48	123.98	19.48	93.74
17211	1445.11	555.30	1017.49	34.14	93.70
15772	28.16	13.60	23.47	26.74	93.66
25689	1435.28	508.41	1360.96	40.18	93.66
22545	252.03	89.09	444.84	127.61	93.62
11954	3134.66	1692.86	2572.78	105.71	93.57
8634	343.04	96.04	542.29	61.79	93.53
13771	91.36	32.90	152.72	14.45	93.53
14871	688.13	217.01	1066.71	67.36	93.53
25435	69.69	23.87	116.39	11.28	93.49
18076	2539.23	1190.89	2104.90	81.41	93.49
1660	6.16	20.59	24.43	41.71	93.44
20817	1076.80	681.07	1252.44	51.53	93.36
22923	57.85	40.50	3.36	7.47	93.32
20508	16.41	9.30	22.98	0.98	93.27
14304	95.81	30.28	138.83	9.76	93.23
23005	911.26	224.88	1191.71	45.14	93.23
16375	1004.76	291.14	1452.05	94.00	93.23
25754	73.97	20.01	103.72	4.72	93.19
820	2460.91	1164.05	2043.71	81.32	93.19

TABLE SH:	CEPHALORIDI s): 6, 24 liis	Aiiy. Docket No. 44221-5032W Doc. No. 1793397.			
ldentifier	NonToxMean	NonToxOD	Tox(Mean:	ToxSD .:.	LDAScore:
1698	72.61	72.54	355.15	57.50	98.88
25057	-16.00	13.42	28.61	15.15	98.84
23302	115.35	36.99	250.40	26.19	98.45
25098	44.75	40.56	161.77	39.01	98.45
7022	6.54	19.86	87.07	26.85	98.45
18005	16.30	11.61	71.95	28.31	97.64
16318	111.73	57.76	214.34	48.82	97.59
15849	181.68	73.50	381.77	34.83	97.29
23283	520.93	94.30	765.95	70.15	97.25
23203 651	12.40	11.40	69.75	44.55	97.16
16112	56.89	23.53	146.28	35.70	97.12
25198	33.14	18.60	104.50	28.93	97.12
3879	109.65	35.18	198.92	13.77	97.03
19253	280.76	74.42	450.66	32.07	97.03
	140.99	45.51	267.24	27.71	96.90
15376	113.15	45.28	284.43	88.10	96.82
21038		34.55	219.65	37.89	96.69
20917	114.76		74.86	36.83	96.47
650	17.69	13.01		26.01	96.35
11411	252.17	76.16	422.51		96.35
343	28.78	32.80	129.29	21.40	
16248	128.59	52.73	293.26	99.85	96.30
20843	165.02	37.03	274.00	60.23	96.30
18995	61.26	23.28	126.99	20.34	96.17
7050	68.24	24.46	116.13		95.92
20753	128.41	31.77	231.50	37.70	95.83
18084	36.85	19.15	95.80	24.41	95.83
1764	97.37	32.56	181.11	28.78	95.83
22413	73.51	35.54	155.12	24.23	95.74
12162	313.72	69.35	466.55	53.66	95.57
9573	313.16	70.67	449.88	24.42	95.53
5458	521.55	111.52	766.69	82.52	95.49
23889	170.87	60.58	320.41	74.89	95.49
1623	84.54	20.77	130.31	10.23	95.44
19254	240.06	74.71	400.30	44.56	95.31
1628	13.93	10.20	37.44	6.38	95.27
672	-2.45	13.09	33.39	16.62	95.27
1855	13.51	8.02	32.00	4.11	95.18
3900	83.63	36.44	170.88	42.74	95.14
15281	172.53	45.57	282.14	34.03	95.10
1582	16.73	13.23	46.93	7.97	95.10
25589	154.39	37.33	240.89	33.81	95.10
527	63.31	19.85	119.93	25.90	95.06
17434	163.74	49.10	263.86	22.79	95.01
21063	75.00	25.88	144.62	27.06	94.97
14353	61.97	20.12	119.73	30.32	94.93
5850	87.12	29.12	157.80	23.31	94.93
2059	139.66	39.69	243.75	48.13	94.84
16333	132.19	38.88	212.16	19.97	94.71
25377	31.75	20.09	77.51	19.81	94.50
23282	277.48	51.59	385.61	37.11	94.50
12058	109.37	35.93	194.17	43.87	94.45
9952	163.81	35.63	235.14	38.00	94.37
22196	58.71	24.71	123.83	37.19	94.37
16121	110.03	60.28	208.77	16.39	94.33
24640	177.93	59.42	295.24	35.00	94.33
24640 1946	46.78	14.37	67.25	3.13	94.33

TABLE 5H: Timepoin((	CEPHALOMIDI 3): 6, 24 hrs	Atty. Doctot No. 44921-5039000 Doc. No. 1793397.			
ldentifer.:	MonToxMein;	NonTexSD	ToxMeen	ToxSD .	LDAScore
12259	-0.17	9.62	21.16	7.74	94.15
6790	62.58	24.20	118.33	27.25	94.07
21802	45.94	21.21	103.13	35.44	94.07
14125	128.30	50.32	211.96	15.22	94.07
18183	31.28	14.65	67.29	14.30	94.02
17225	162.76	46.10	264.51	40.73	93.94
20514	83.93	25.89	146.04	21.67	93.94
1342	31.31	15.65	72.08	26.80	93.81
16616	88.26	37.98	165.12	31.68	93.77
4386	55.88	26.02	117.38	28.79	93.77
13464	30.34	17.92	75.47	19.34	93.68
11358	82.35	33.88	151.50	27.12	93.59
7866	43.15	16.17	81.51	16.07	93.51
22967	163.95	54.65	241.59	15.86	93.47
3385	57.15	28.33	114.53	19.32	93.42
24748	-23.01	37.80	49.31	11.34	93.38
16059	50.12	14.86	84.72	17.27	93.38
16122	117.41	41.42	186.27	14.87	93.34
1350	143.74	30.94	209.15	28.63	93.34
3384	39.05	17.03	73.91	10.64	93.29
18259	216.96	155.49	545.75	138.45	93.28
20724	48.65	21.46	90.26	16.90	93.25
352	87.58	53.82	157.16	24.98	93.21
10740	26.94	24.94	69.61	15.31	93.12
1394	24.70	11.31	42.23	3.80	93.12
22466	462.31	92.72	638.40	68.34	92.99
3684	467.12	135.55	762.39	150.04	92.99
14768	85.99	47.21	225.50	66.59	92.98
13285	71.32	19.47	109.95	16.43	92.91
1537	29.82	40.75	245.05	131.87	92.90
8442	38.53	17.21	75.30	16.45	92.86
1183	52.85	29.47	214.38	101.63	92.85
127	19.05	14.19	48.31	9.93	92.73
1399	200.20	80.01	449.25	95.96	92.68
11203	75.19	24.99	127.88	16.58	92.65
370	22.03	9.87	40.53	4.22	92.61
415	38.66	18.55	77.02	14.75	92.61
373	32.60	56.68	306.93	119.81	92.60
22524	112.62	47.12	195.09	26.00	92.56
5951	88.94	34.80	155.83	27.94	92.56
13023	176.39	400.42	1491.81	754.76	92.55
7836	102.26	27.02	156.20	28.41	92.48
7051	62.10	22.11	105.49	19.48	92.48
8749	115.18	42.04	202.78	33.94	92.39

	CIDOFOVIR (s): 120 hrs	े नियानी अहित क	Air. Do		1921-5039WX lo. 1798397.
	KonToxMean	D&xoTaoM	ToxMean	ToxSD :	
18609	203.96	70.15 21.84	541.22 203.76	19.78	99.70
20674	83.03			22.76	99.61 99.57
4312	76.73	35.26	365.78	59.40	
24041	12.84	32.48	31.93	0.33	99.53
5733	10.73	30.54	617.55	122.19	99.44
2768	1962.14	417.45	933.17	95.15	99.32
2410	11.13	10.13	64.03	13.02	99.32
14289	62.53	19.54	95.56	0.76	99.27
5689	12.82	19.88	85.25	13.41	99.23
14594	-17.87	24.41	86.07	17.70	99.23
24000	64.13	33.98	157.59	7.48	99.19
3027	0.11	26.38	29.41	3.47	99.19
18322	2666.91	812.51	1165.22	99.03	99.06
7324	97.12	49.43	271.43	20.08	99.06
20903	70.06	46.59	288.96	29.37	99.06
20757	410.75	211.87	1571.32	228.32	98.97
1599	22.63	26.70	62.22	8.06	98.97
5183	215.17	70.24	445.78	24.68	98.97
4856	122.81	48.54	241.75	6.99	98.97
2655	42.27	39.82	529.96	152.39	98.97
10167	189.75	100.26	305.25	11.81	98.97
21275	225.36	80.40	666.87	94.23	98.93
22722	73.37	39.40	290.14	53.00	98.93
20082	75.76	32.27	258.55	44.96	98.93
912	474.15	83.63	764.00	33.56	98.84
8002	13.99	15.79	47.18	4.09	98.84
13158	463.87	106.89	360.87	1.60	98.80
10200	41.90	30.39	92.98	6.46	98.76
5572	332.45	146.31	611.55	14.40	98.67
410	1097.88	255.30	605.30	42.31	98.63
20755	145.36	116.99	986.50	562.94	98.63
23376	14.61	16.79	37.95	1.52	98.63
1600	44.38	66.08	114.35	13.26	98.63
25705	454.53	109.40	1132.56	152.81	98.59
13609	240.24	60.23	98.11	9.83	98.59
24219	315.68	82.27	692.16	77.33	98.59
26184	204.20	70.54	454.10	35.35	98.54
16081	117.80	381.49	136.30	8.26	98.54
7660	57.70	87.65	653.31	318.06	98.54
22681	222.75	194.18	580.89	50.39	98.54
9215	90.03	33.75	158.07	6.56	98.50
25699	137.08	68.59	-11.79	8.27	98.50
1048	-6.15	31.92	56.08	15.06	98.50
2729	640.63	170.18	328.03	37.57	98.50
15981	75.77	29.60	148.46	12.15	98.46
133	-43.58	39.29	55.82	20.14	98.37
24707	47.32	82.24	10.71	1.68	98.37
5193	192.02	179.55	250.16	3.55	98.37
3981	72.52	103.32	368.64	91.18	98.37
				32.83	
21893	51.03	33.90	172.83	1	98.37
6168	350.38	204.48	829.66	132.95	98.37
1262	43.72	51.67	193.22	27.67	98.33
0289	14.87	14.48	127.47	59.89	98.24
7161	1157.45	414.68	2144.64	136.59	98.24
26150	780.06	534.26	32.24	49.38	98.24

TABLE 6	n: CIDOFOVIR		Ally. Do	eket No. 4	14921-5089W(
Timepoi	n((s): 120 hrs		Street Street	. Dog	No. 1798397.
ldentifie	7 NonToxMea	n NonToxsi	D'ITOXMESON .	TOXSD.	LDAScore
3916	737.83	188.48	383.68	38.35	98.24
5839	5.98	20.99	59.41	8.18	98.16
26084	113.22	92.96	448.40	70.70	98.16
21654	362.77	114.65	543.47	30.13	98.12
26119	124.48	46.50	204.85	9.09	98.12
17314	6.10	12.64	43.93	7.10	98.07
353	173.67	81.62	475.77	74.64	98.07
16756	177.77	53.62	345.26	28.00	98.07
11437	555.26	125.28	290.62	37.25	98.07
24433	35.92	17.39	77.13	4.05	98.03
5464	225.07	67.79	427.11	46.05	97.99
15416	49.65	20.05	91.41	3.94	97.99
21948	203.26	65.91	33.57	32.91	97.99
18361	460.95	159.60	865.38	68.10	97.95
4049	22.90	64.75	174.30	49.09	97.90
6765	788.37	204.50	462.53	19.06	97.90
17401	910.82	424.91	1651.59	134.17	97.90
20830	519.62	176.96	850.57	34.74	97.86
12908	40.69	40.63	135.60	42.31	97.86
19762	4.99	10.67	25.14	2.42	97.82
20457	382.89	90.62	215.96	13.41	97.82
5430	136.50	60.64	401.60	97.31	97.82
15300	137.15	130.99	496.58	110.00	97.73
11259	107.70	137.96	508.22	165.85	97.73
3808	168.07	57.61	297.97	55.59	97.73
22050	3164.11	929.00	1779.72	124.06	97.73
4451	290.06	65.29	164.79	13.86	97.73
16170	38.98	26.45	97.44	18.88	97.69
13332	420.04	95.61	169.12	30.12	97.69
15861	460.82	148.89	174.40	29.65	97.69
6606	251.17	124.12	178.93	1.98	97.65
19370	308.88	74.48	551.57	63.31	97.65
3874	883.32	205.24	530.31	28.27	97.65
20991	224.15	69.07	195.44	2.64	97.60
18811	46.63	26.47	80.60	1.75	97.60
5881	103.14	35.12	184.15	16.55	97.60
354	214.95	93.98	490.19	69.08	97.56
11454	238.74	78.96	470.27	65.91	97.56
12873	122.01	67.80	366.63	64.37	97.56
20829	813.56	302.89	1539.75	129.65	97.56
17807	753.81	228.33	1314.67	146.81	97.56
8585	289.56	118.65	190.91	6.78	97.56
8215	1680.14	394.54	881.26	110.65	97.56
14763	38.37	132.57	554.64	221.30	97.52

TABLE 5J: Timeroima	CISPAN combin 3): 6, 24 hrs	Affy. Docket No. 44921-503900 Doc. No. 1733397			
	NonToxMean	MonToxSD.	Lox(Moan.		LDV8coue.
3990	276.73	75.18	522.76	68.28	96.93
1460	198.36	85.83	320.23	42.90	95.60
16853	67.12	22.69	121.67	21.69	95.08
13239	108.86	47.65	222.86	33.91	94.73
21355	373.47	117.15	627.82	92.43	94.69
3454	238.70	77.20	419.87	47.88	94.69
1247	1313.77	499.48	559.96	117.97	94.56
5506	233.04	59.13	375.55	54.15	94.34
1585	67.19	32.77	140.57	23.52	94.26
1962	33.04	26.70	76.49	11.48	94.17
				42.15	94.13
18433	18.64	45.96	123.81		94.04
15050	638.79	181.52	459.28	26.53	
7693	1261.20	375.03	651.01	91.79	93.87
1956	78.53	37.78	155.47	25.21	93.65
6233	68.67	88.34	117.42	12.47	93.18
11445	435.55	103.48	642.14	86.21	92.62
3004	125.10	43.16	255.80	43.43	92.37
1811	10.62	25.84	83.04	26.96	92.28
1542	929.09	263.76	560.16	66.12	91.97
6591	151.89	47.44	236.90	29.21	91.84
8694	52.90	48.32	176.24	47.08	91.68
1524	-14.63	24.06	46.43	29.33	91.59
9080	75.03	55.99	212.58	72.04	91.20
20514	83.88	26.10	127.69	12.79	91.19
5701	37.45	16.42	79.72	13.34	91.16
6122	116.73	39.95	217.85	62.09	90.99
2079	303.23	81.83	406.18	33.43	90.98
9327	88.79	28.83	152.22	21.27	90.86
335	95.54	44.88	191.73	23.12	90.86
14003	817.87	211.94	491.17	61.11	90.86
9104	138.43	38.55	221.59	41.76	90.69
25253		1		54.59	90.69
	291.50	63.92	430.49	73.20	90.67
23322	1169.44	284.23	807.96		
24696	68.34	46.61	180.46	53.14	90.60
1552	71.02	83.66	121.56	15.30	90.54
19120	31.87	24.91	90.61	26.26	90.51
7411	78.54	53.72	189.16	45.14	90.51
16121	109.00	58.08	258.63	87.07	90.47
639	96.38	22.51	149.03	17.77	90.43
622	2080.70	896.54	796.36	153.89	90.41
9882	487.60	181.11	245.48	60.74	90.41
23852	261.73	101.88	487.29	97.17	90.38
3684	465.64	134.08	778.77	108.34	90.38
7857	51.80	45.32	150.23	38.24	90.38
281	232.74	67.04	343.63	49.82	90.34
5790	45.82	25.45	87.17	18.57	90.24
23884	40.55	32.64	101.67	19.55	90.21
7682	673.97	178.07	455.67	77.33	90.16
16581	39.15	19.04	83.46	15.21	90.12
24390	161.41	1112.42	367.16	79.88	90.08
		28.30	124.53	24.81	90.08
3886	57.66				
3682	176.78	61.74	302.10	50.60	90.04
7262	1113.30	393.42	1879.06 952.13	245.81 425.90	90.00 89.98
11954	3158.62	11682.02			

TABLE 61:	CISPAN combin	30 <b>李金藤</b>	· Ally. Doc	het No. 44	1921-5039W0
Vimepoint(E	6): 6, 24 hrs	200		.: Dog. K	lo. 1798397.
identifier :	nselvkotnov		ToxiMeen	ToxSD .	LDAScore
819	3116.95	1659.72	925.18	255.80	89.90
16211	2269.84	1132.19	853.70	212.63	89.90
1521	20.42	50.86	117.89	40.21	89.78
23125	4625.10	2534.40	1935.15	332.35	89.77
9109	1022.92	338.20	736.62	48.42	89.77
10141	53.73	45.97	150.14	52.96	89.69
152	72.28	26.46	108.76	14.84	89.68
17154	198.73	57.61	281.13	33.91	89.59
6362	62.35	38.95	146.74	29.87	89.56
10540	19.51	18.83	64.08	25.25	89.52
651	12.58	12.76	33.89	11.18	89.52
17086	151.38	43.21	214.56	21.12	89.51
12020	167.06	60.45	260.26	34.23	89.51
4121	62.05	23.29	113.40	19.65	89.43
8211	2875.40	1605.55	956.21	247.45	89.38
20404	53.25	45.78	130.86	32.28	89.35
7522	31.59	18.74	75.54	18.10	89.30
20879	87.24	50.13	179.14	40.07	89.26
17550	1318.67	366.65	860.58	175.55	89.25
21950	727.03	149.84	534.23	70.97	89.21
25405	77.77	28.49	139.55	22.89	89.17
14125	127.72	49.56	229.81	40.28	89.17
1611	8.22	23.65	52.29	18.59	89.13
21685	122.94	42.72	207.33	33.76	89.13
17524	1176.52	284.08	761.61	160.07	89.09
10611	10.59	27.29	104.61	49.13	89.06
22849	197.26	50.25	298.83		89.00
1608	12.43	29.83	56.08	17.26	89.00
4312	76.57	37.18	172.28	72.36	88.97
1396	47.24	18.54	84.98		88.92
20871	52.42	25.81	108.86	22.74	88.92
10344	22.14	21.48	62.29		88.83
15587	38.29	19.07	66.30	11.60	88.82
9096	9634.12	6768.62	2697.48	901.04	88.82
4290	94.06	28.34	144.64	19.10	88.79
24143	192.56	96.48	385.57	70.47	88.74
12174	80.77	29.46	139.07	31.48	88.74
17336	65.85	21.84	107.99	13.40	88.74
25257	101.83	34.03	168.25	31.38	88.74
20350	154.58	49.68	245.00	41.28	88.70
11335	661.49	162.55	459.38	57.71	88.64
24146	219.42	50.91	370.23	55.30	88.63
16254	5.55	11.81	26.92	12.39	88.61
20876	1683.23	611.09	940.93	123.03	88.60
9312	31.90	15.15	74.64	21.22	88.58

സ്ത്രമാണ് സ്ത്രമാണ്	: CISPLATIN (s)): 163 hts		: And poor	44 ,000 DOG. 16	1921-503807. 10. 1798397.
ldenuitier	NonvoxWean.		ToxWean		LDAScore
14458	36.84	28.40	100.33	0.26	99.96
22385	106.64	51.70	345.64	8.69	99.87
11731	43.29	24.10	393.30	43.69	99.87
23745	201.94	65.06	823.60	110.42	99.83
12903	53.64	18.74	124.32	6.90	99.83
15503	124.27	37.32	319.29	21.43	99.79
8235	43.83	34.77	145.95	18.00	99.79
16756	177.83	53.82	327.44	3.02	99.74
	15.30	15.19	84.22	6.17	199.74
16119	1725.18	546.07	289.45	25.19	99.74
11967			62.62	5.74	1
3608	333.84	110.50	174.49	19.16	99.70  99.61
18729	19.92	29.07			
5891	-53.03	47.69	106.02	18.28	99.61
2048	31.69	20.74	125.19	16.43	99.61
4490	76.73	72.26	462.55	50.86	99.61
1743	29.35	16.21	72.89	1.22	99.61
1584	162.19	43.70	307.85	8.25	99.57
16137	6.75	397.82	87.49	8.36	99.53
23778	68.99	34.04	179.58	9.21	99.53
23261	1568.96	389.70	925.80	13.87	99.53
308	468.33	143.61	160.94	9.90	99.53
1962	33.33	26.74	101.07	4.72	99.53
21789	34.67	30.58	177.40	21.84	99.53
23769	-6.24	8.69	33.99	6.30	99.53
23070	125.37	31.23	218.44	4.95	99.49
12400	13.19	10.48	74.60	11.18	99.49
16676	38.33	26.96	110.79	5.32	99.49
23780	25.07	35.93	95.20	12.81	99.44
25545	94.29	48.16	306.94	34.66	99.44
15254	209.66	67.16	447.21	21.22	99.44
23992	5.39	7.25	34.45	3.17	99.44
14430	34.19	31.78	125.29	8.54	99.40
11969	96.84	38.48	303.71	38.83	99.40
4312	77.16	37.99	241.97	24.41	99.40
4967	33.46	19.94	94.30	3.72	99.36
2079	303.69	81.26	527.92	20.78	99.32
22816	23.12	15.17	89.33	8.69	99.32
3609	407.50	148.70	67.97	9.33	99.32
4361	90.16	30.77	193.28	10.19	99.32
13682	177.74	62.54	333.83	4.20	99.32
15504	129.02	50.62	447.33	63.50	99.27
			1110.07	15.08	99.27
33	271.13	101.41	134.40		
21183	22.62	26.03	A STATE OF THE STA	19.53 61.63	99.27
24222	101.20	52.50	460.48		99.27
8548	63.06	30.22	6.09	1.52	99.27
24301	109.26	35.74	248.67	13.48	99.27
18442	38.61	17.15	99.87	5.14	99.27
14370	32.54	45.58	189.80	11.25	99.23
21500	80.36	76.69	471.24	73.44	99.23
24211	148.45	87.73	552.73	49.74	99.23
770	798.02	219.52	248.56	33.80	99.23
21791	84.31	36.00	242.62	24.88	99.23
24651	100.74	23.52	203.14	12.02	99.23
17897	53.72	25.98	111.75	3.84	99.23
20890	101.09	46.35	342.52	50.55	99.19
712	1.36	9.08	60.25	14.12	99.19

TABLE 5K: CISPLATING AND AND DOCKET NO. AMENICATED TO THE TRANSPORT OF THE PROPERTY OF THE PRO							
lgeugiter Amresonva			Diem Ween		io. 1/2022/.1  LDAScore		
18553	54.23	33.42	166.80	12.30	99.19		
					1		
15884	183.00	57.89	383.85	23.01	99.19		
19722	168.71	55.03	336.25	15.95	99.19		
17481	26.11	28.66	137.39	13.89	99.19		
5733	12.25	46.24	172.15	34.99	99.19		
4895	232.18	95.74	44.77	8.48	99.14		
15151	153.83	39.15	302.83	29.57	99.14		
14759	21.72	15.86	78.25	9.50	99.14		
15039	272.18	79.33	101.53	6.80	99.14		
12782	20.00	43.24	135.93	6.16	99.14		
23121	19.80	13.92	60.40	2.66	99.14		
26292	22.82	12.83	85.01	11.49	99.14		
2154	59.03	121.05	244.16	33.75	99.14		
21583	125.87	40.62	270.04	27.65	99.14		
3006	26.57	35.44	81.75	9.18	99.10		
1203	5.08	18.58	86.62	14.26	99.10		
24472	234.56	47.65	380.85	13.16	99.10		
5729	87.49	38.35	274.95	40.90	99.10		
132 .	-24.93	23.56	50.93	12.76	99.10		
1801	97.64	29.41	197.50	14.44	99.10		
1993	30.09	21.86	117.89	9.03	99.10		
16675	33.74	34.04	112.81	11.29	99.10		
1382	57.80	21.22	127.59	5.60	99.10		
17586	115.18	35.27	246.61	21.48	99.06		
21666	22.81	17.92	87.38	6.42	99.06		
2125	76.55	80.69	345.60	72.31	99.06		
21709	142.70	29.95	215.46	6.19	99.06		
16538	132.96	36.43	245.73	9.25	199.06		
2845	667.61	123.51	1098.14	42.15	99.02		
753	42.04	16.33	120.03	23.17	99.02		
21893		33.48					
	50.92		203.93	25.50	99.02		
21836	29.24	16.81	91.95	8.44	99.02		
21817	10.63	13.30	59.28	7.00	99.02		
6517	231.85	156.64	721.49	128.57	99.02		
1588	61.92	22.15	122.71	6.97	99.02		
14564	48.33	23.27	104.89	3.20	99.02		
3079	34.64	46.77	152.78	26.18	98.97		
7602	193.69	43.89	364.34	31.12	98.97		
20816	393.33	173.56	774.42	37.69	98.97		
6322	18.88	17.54	122.95	22.89	98.97		
17337	510.70	139.07	253.28	6.67	98.97		
18161	114.11	43.86	244.42	22.79	98.97		
4057	64.54	20.73	139.42	12.02	98.97		
22552	314.43	92.85	696.18	70.05	98.93		

iniogenil <sup>i</sup>	(s): 6, 24 hrs	<b>第一个图</b>	Aliy. Doc		1921-5039VV 10. 1793397.
dentifier.	KonToxMean:	NonToxSD#	ToxMean 🚁	ToxSD.	LDAScore;
20082	75.47	31.84	228.60	43.28	98.84
1598	47.75	56.92	133.89	25.63	98.58
15313	11.08	24.34	53.59	5.89	98.54
2655	43.13	48.31	177.30	66.12	98.20
14424	66.72	130.96	272.03	63.86	97.85
17314	5.89	11.89	63.70	27.83	97.85
21275	225.06	80.71	528.11	144.80	97.68
1047	85.85	50.33	190.04	23.02	97.60
20116	9.55	31.45	124.39	50.70	97.38
15382	122.93	203.50	341.43	85.17	97.34
1521	20.82	51.01	148.25	24.41	97.30
24146	220.17	51.83	396.31	40.61	97.30
3990	278.10	77.14	540.97	69.47	97.21
1884	178.33	37.79	272.14	18.27	97.17
4933	134.55	205.15	335.87	89.54	97.04
5506	233.65	59.50	415.92	45.52	97.04
4944	112.31	56.05	264.36	39.37	96.95
8004	125.79	44.06	271.11	40.68	96.95
1993	30.02	21.93	91.88	19.85	96.91
20506	21.57	7.97	46.99	7.30	96.82
21462	257.92	58.72	424.63	52.75	96.78
6974	129.50	46.90	236.12	28.32	96.78
11549	243.07	64.12	425.53	38.72	96.74
2905	245.79	107.78	488.69	56.33	96.74
1811	10.99	26.26	94.19	25.01	96.70
10839	313.60	67.83	533.54	83.77	96.70
2468	252.35	62.46	433.73	70.78	96.61
373	33.94	61.41	162.88	51.32	96.57
19040	186.25	107.25	258.19	19.20	96.57
15299	87.98	61.10	206.62	59.64	96.57
13684	467.21	135.45	831.58	69.76	96.52
910	57.76	21.93	136.53	45.93	96.35
4477	11.91	8.60	37.00	7.79	96.27
20871	52.68	25.99	122.97	14.46	96.22
16853	67.36	22.84	136.28	21.27	96.18
23473	156.94	56.94	338.21	73.37	96.18
2536	393.91	124.60	585.25	20.89	96.14
10015	232.29	77.80	340.64	28.00	96.14
	53.51	48.91	198.02	43.87	96.09
16284	40.93	27.58	129.79	27.84	96.09
18375	121.97	28.16	198.57	23.40	96.05
23314	70.46	275.32	498.55	211.58	96.05
551	12.67	12.78	40.79	8.43	95.97
3266	133.11	36.44	247.88	45.93	95.97
1460	198.97	85.95	340.15	49.64	95.97
20065	86.81	30.90	170.50	27.85	95.97
15301	38.37	68.10	96.58	21.67	95.92
23448	169.78	101.84	327.19	44.52	95.92
15003	36.27	96.97	63.65	10.34	95.88
26184	203.75	69.61	423.29	118.85	95.88
8336	26.96	37.28	139.71	61.60	95.79
5362	62.77	39.27	160.35	23.77	95.75
14003	815.94	212.81	484.61	51.19	95.67
9339	357.63	88.22	598.27	74.10	95.62
5384	60.88	59.65	127.67	27.22	95.54
15345	201.66	67.69	322.91	40.01	95.45

TABLE SL	: CISPLATIN		Aliy. Do	eket No. 4	14921-5039W
iniogenii i	(s): 6, 24 hrs			Dog.	No. 1798397.
ldentiliter.	NonToxMean .	NonTox&D	ToxiMean.	ToxSD.	LDAScore
22849	197.75	50.59	318.11	30.11	95.41
23868	178.04	289.84	277.77	47.26	95.41
16233	68.93	88.14	123.52	11.88	95.36
6454	239.80	78.37	418.57	35.68	95.36
21061	58.86	27.77	128.21	17.87	95.36
24143	193.56	97.20	413.12	53.39	95.32
15296	137.87	56.84	269.21	33.23	95.32
22374	148.45	41.20	247.50	28.04	95.28
13239	109.46	48.17	236.67	36.75	95.28
8768	64.97	26.90	141.33	30.56	95.28
1542	927.15	264.15	512.83	50.15	95.28
22352	156.66	103.69	254.35	25.00	95.24
14051	133.17	35.29	219.32	28.80	95.24
9343	189.65	67.21	349.25	44.44	95.24
1247	1309.30	501.39	550.55	103.22	95.19
7857	52.35	45.86	156.83	28.07	195.19
11727	230.50	78.02	409.08	59.02	95.19
1639	96.67	22.79	153.44	17.91	95.11
15374	138.74	36.97	231.57	31.99	95.02
		61.33	242.19	14.71	94.98
3899	141.45	28.73	149.92	18.38	194.98
25405	78.08				
23872	49.59	92.93	101.10	24.53	94.98
24368	244.08	80.76	439.99	52.18	94.98
10818	465.48	185.96	140.29	49.38	94.98
17693	1257.86	376.37	596.02	96.76	94.98
25253	292.22	64.49	449.51	58.18	94.89
11708	319.92	92.39	486.60	46.21	94.89
17908	63.14	60.90	124.23	27.40	94.89
24028	407.75	96.21	644.04	67.17	94.85
11455	115.78	48.10	202.56	32.14	94.85
20870	19.10	29.21	92.31	26.59	94.81
3931	94.55	29.06	155.45	15.94	94.68
6581	76.02	26.19	132.63	10.11	94.68
1447	208.86	37.67	272.57	11.93	94.64
22501	257.01	67.60	383.79	63.10	94.64
10720	153.08	43.55	217.97	97.98	94.64
20591	25.22	22.60	68.79	11.62	94.59
1292	62.12	24.60	116.95	15.58	94.55
21355	374.95	118.50	635.77	102.99	94.51
23852	262.89	102.86	519.85	100.21	94.51
18689	360.99	81.71	541.28	55.93	94.51
4426	222.88	38.63	305.45	29.97	94.51
23563	24.57	33.24	96.80	28.33	94.46

TABLE 5M: Timeroim((	CISPLATIN : 5 3): 6, 24, 163 hrs		Ally. Docte	No. 44924 Doc. (	1-5009XXO Xo. 1790397.1
ldentifier ·	NonToxMean 🐕	NonTox&D ::	ToxMean * :-	ToxSD#	LDAScore: 3
1521	20.35	50.42	152.11	27.16	97.37
1884	178.00	37.40	272.66	21.76	97.03
16284	40.57	26.94	134.66	25.22	96.99
18694	52.96	48.08	203.55	35.96	96.77
10839	312.93	66.86	524.22	78.99	96.77
11549	242.48	63.43	420.82	36.27	96.73
8990	277.44	76.38	515.35	72.77	96.60
6362	62.37	38.73	167.05	23.05	96.60
1811	10.74	25.96	89.58	21.97	96.60
4477	11.83	8.50	36.45	6.35	96.55
4047	85.57	50.18	181.03	26.48	96.55
16853	67.12	22.50	136.44	18.16	96.55
3266	132.70	35.81	249.33	37.38	96.47
13684	466.14	134.44	811.93	63.86	96.47
2905	244.60	105.83	525.71	99.02	96.43
1460	198.53	85.75	335.50	43.05	96.38
23314	69.18	274.82	477.84	185.93	96.25
17693	1260.38	374.54	570.60	88.76	96.21
15301	38.18	68.12	96.20	20.88	96.12
17894	46.77	18.63	103.03	28.25	96.08
10015	231.46	76.52	389.17	82.89	95.99
19040	185.68	106.97	292.78	52.89	95.95
18375	121.75	27.96	193.24	20.67	95.74
4426	222.53	38.25	311.48	25.65	95.74
<del>785</del> 7	51.97	45.46	159.10	25.13	95.65
6454	239.16	77.72	421.14	34.72	95.65
15296	137:17	55.52	295.99	61.04	95.56
			97.87	70.28	95.52
10818	467.00	184.46		85.55	95.52
23852	261.84	101.45	536.68		95.48
1542	928.65	263.36	505.79	51.94 11.38	95.31
20090	122.37	27.65	178.94		
1247	1312.52	499.20	486.71	136.84	95.31
13682	176.87	61.56	326.18	46.83	95.26 195.26
14003	817.40	211.66	451.12	81.85	
12478	82.11	29.97	149.88	36.04	95.22
1585	67.31	32.78	148.67	23.18	95.22
9339	357.01	87.72	575.84	68.74	95.13
23868	177.77	290.29	269.73	44.26	95.09
20591	25.06	22.48	69.25	11.11	95.05
3352	439.29	115.94	757.04	153.95	95.00
6974	129.29	46.84	219.21	32.67	94.88
8888	58.70	29.09	133.86	26.30	94.88
21061	58.67	27.62	123.00	16.55	94.83
7262	1114.68	393.99	1942.97	210.00	94.83
24368	243.52	80.33	427.84	45.50	94.70
25253	291.81	64.18	436.10	53.03	94.53
20921	26.87	19.97	73.82	15.18	94.44
15438	65.27	31.97	154.80	42.05	94.36
12174	80.78	29.36	153.45	25.53	94.32
808	469.71	142.88	210.55	55.06	94.23
19667	34.63	16.92	74.26	11.91	94.19
3886	57.79	28.39	128.86	25.08	94.19
20082	75.08	31.10	214.13	47.37	94.08
14051	132.96	35.15	209.45	29.46	94.01
5073	188.58	69.99	346.14	69.21	93.93

TABLE 5	n: Cisplatin	the Wayne	Atty. Dock		21-5039WO
Mmepoli	a(s)): 6, 24, 163 hts	3			No. 1793397
dendifier	NonToxMean ·	- MontoxSD	<b>Needymol</b>	. ToxSD	LDAScore
10344	22.23	21.56	63.33	9.18	93.84
15386	93.23	133.87	380.59	101.27	93.76
9882	486.99	181.36	244.23	35.18	93.76
4443	259.36	71.87	429.91	75.00	93.76
16080	44.85	252.23	176.73	162.58	93.76
22005	63.42	50.09	187.23	39.58	93.71
15313	10.94	24.26	52.72	7.91	93.65
6384	60.76	59.71	117.04	26.05	93.63
15701	37.60	16.66	75.18	12.81	93.58
22257	33.56	15.61	61.03	7.13	93.54
2655	42.88	48.17	155.13	62.85	93.52
4198	698.17	161.70	448.59	56.51	93.50
5522	569.21	150.95	877.20	111.47	93.28
19128	112.63	38.66	180.82	19.01	93.15
17314	5.74	11.53	57.89	29.34	93.13
22871	101.59	29.83	165.82	22.84	93.11
21275	224.35	79.76	492.77	134.59	93.09
1727	43.38	60.84	96.90	23.97	93.07
19249	264.62	60.02	356.76	20.60	93.07
1993	29.72	21.35	101.33	20.81	93.04
4584	82.33	29.05	125.60	12.25	92.98
24162	523.84	133.30	788.13	85.20	92.94
7522	31.71	18.92	74.24	15.00	92.89
17713	134.82.	29.04	191.13	21.86	92.85
1428	-7.27	15.96	40.03	16.58	92.83
14776	99.41	35.18	153.67	26.50	92.81
3418	333.44	86.68	495.74	46.58	92.81
1199	529.94	132.34	301.96	61.95	92.64
21685	123.15	42.92	207.52	32.56	92.64
7023	363.44	76.61	483.68	29.43	92.55
1420	40.76	32.16	92.81	27.98	92.48
1121	62.21	23.49	110.83	18.20	92.42
18995	61.31	23.53	109.28	20.56	92.42
14665	151.38	37.30	219.57	23.41	92.33
11404	134.16	54.82	304.44	53.63	92.14
910	57.47	21.40	138.17	36.81	92.10
24081	117.08	63.79	235.77	50.20	92.03
22351	45.44	32.53	86.73	20.28	91.99
16012	72.47	31.00	153.59	33.17	91.97
22211	766.80	164.47	1061.59	90.34	91.95
727	210.80	38.94	274.04	15.91	91.90
9104	138.35	38.03	253.38	40.14	91.88
10417	43.82	25.97	125.71	32.61	91.88
10611	10.74	27.42	115.20	49.23	91.84
1314	262.03	49.07	394.88	48.07	91.79

Timepoint(	S): 6, 24 hrs		1,2	<u></u> Doc. ()	1921-5000W0 Jo. 1798397.1
ldendlier#	KonToxMean	NonToxSD	Toxilleani	ToxSD & u	LDAScore :
17541	622.47	209.71	2524.98	697.44	98.92
6108	533.46	112.70	1024.58	102.59	98.62
25064	962.08	317.37	2651.31	379.95	98.58
1698	70.27	55.64	598.98	232.89	98.49
8820	130.72	105.90	755.03	221.60	98.41
23917	725.54	174.69	1782.62	536.25	98.36
20817	1043.62	545.12	5020.35	2088.07	98.32
15391	756.64	170.28	1510.23	272.65	98.24
20864	1562.02	620.45	4051.37	596.98	98.19
24192	70.11	37.23	212.99	53.54	97.93
20818	665.29	354.08	2965.76	1254.63	97.93
1340	192.34	49.85	114.30	11.66	97.76
20035	180.50	107.18	446.34	61.98	97.72
25525	1057.73	339.31	2228.58	326.32	97.55
18989	782.09	261.73	1560.14	205.30	97.46
3431	1496.13	608.90	3517.88	499.00	97.42
13723	734.46	282.33	1643.16	339.11	97.29
353	173.42	82.57	323.18	43.00	97.25
15848	1318.65	418.94	2622.73	442.07	97.16
634	1135.42	374.65	2281.52	441.32	96.86
354	214.25	93.76	406.34	75.12	96.77
7681	101.15	43.91	212.89	41.46	96.64
13610	357.22	70.16	213.99	29.24	96.56
5601	970.57	259.22	473.69	102.75	96.47
3876	30.44	14.34	1.17	8.63	96.13
24375	115.03	40.98	208.88	57.88	96.04
8212	2232.57	1104.98	5289.94	717.26	95.96
15106	1878.08	698.66	3540.36	359.29	95.74
14670	1214.56	325.29	1917.56	318.04	95.70
15189	1735.59	1153.61	4557.38	1226.17	95.70
24496	122.73	40.31	47.99	15.89	95.57
20895	332.13	100.81	137.61	37.56	95.52
20876	1661.97	599.79	3113.86	382.39	95.52
18533	35.68	17.84	5.09	4.52	95.52
6630	1393.25	256.89	913.59	112.68	95.48
	837.88	286.57	1606.81	216.13	95.44
15850	1209.74	343.26	2046.05	316.40	95.44
7315	-13.72	19.65	37.49	20.35	95.44
9254	247.89	49.11	157.69	17.49	95.44
	443.12	132.07	716.96		95.31
18359	245.00	113.72	546.56	83.87	95.22
8211	2822.70	1582.68	6312.46	772.17	95.22
16831	42.34	13.79	13.06	7.30	95.22
18644	2209.11	1246.61	5017.03	698.10	95.14
15190	1803.71	1156.33	4453.59	1177.82	95.09
15201	1480.71	527.22	2864.67	616.92	95.09
18205	277.90	58.81	408.93	34.56	95.09
19094	1054.85	243.62	1623.72	219.27	95.05
	219.63	44.77	132.90	13.45	95.01
10464	131.59	35.74_	68.61	13.81	94.84
9409	102.66	32.91	171.76	24.78	94.84
7586	795.05	201.44	401.14	109.74	94.79
18800	2701.84	1144.69	5340.05	791.36	94.79
	688:20	206.46	1130.86	172.21	94.75
2697	1222.06	354.81	1908.51	176.60	94.75
10267	2101.59	872.11	4127.29	650.25	94.71

TABLE 5N	CITAININ C	Programme of the second	AMY. Do	eket No. 4	1921-5000W	
Timepoint	(s)): 6, 24 hrs		<u> </u>	Doc. No. 1793397.		
ldentifer.	NonToxMean:	KonToxSD:	ToxiMean	ToxSD	LDAScore	
22773	230.97	52.31	131.59	26.18	94.54	
1651	880.31	240.55	631.98	31.80	94.19	
17494	219.24	41.89	138.20	23.13	94.15	
244	51.19	35.18	14.03	8.20	94.15	
17693	1247.25	372.94	2027.18	231.36	94.10	
6946	389.05	103.41	200.78	37.64	94.02	
23783	436.13	76.56	298.50	28.57	93.93	
19408	1997.30	674.69	2937.88	154.93	93.89	
20088	383.97	79.45	244.56	32.48	93.89	
16272	192.25	63.76	102.37	22.94	93.89	
2866	642.47	211.99	276.00	84.07	93.85	
16954	48.70	79.17	202.92	44.32	93.80	
21685	124.50	43.36	59.69	10.37	93.72	
1719	145.21	38.11	80.93	12.30	93.67	
20810	1256.69	398.25	2088.75	313.45	93.63	
5049	298.40	65.65	175.28	28.59	93.63	
1814	172.31	47.40	99.15	13.17	93.63	
16193	101.42	30.67	44.23	15.12	93.59	
15017	1007.41	395.69	2150.20	484.37	93.58	
17686	1014.59	265.55	1558.32	151.72	93.50	
20803	432.89	100.25	912.31	140.76	93.49	
1537	29.21	35.65	294.59	185.42	93.45	
1399	198.89	71.28	576.63	288.99	93.45	
22583	26.67	14.48	3.43	7.60	93.37	
3091	784.77	186.23	457.77	105.80	93.37	
9029	430.46	93.52	614.72	63.36	93.37	
16849	114.53	44.11	44.12	13.14	93.33	
22414	58.52	33.14	101.78	22.01	93.33	
3283	122.89	43.92	338.56	122.17	93.32	
20918	440.21	126.29	269.42	29.15	93.29	
25069	131.62	55.06	390.27	136.77	93.28	
19067	175.20	51.04	88.87	21.48	93.24	
7022	6.12	16.94	127.93	68.30	93.24	
723	32.80	15.28	8.05	5.98	93.20	
2242	2295.34	607.45	1325.08	393.96	93.16	
24390	165.35	113.57	-9.44	39.74	93.07	
17211	1434.51	548.50	2462.85	274.87	93.03	
22406	79.97	30.24	31.26	10.08	92.90	
24469	1169.56	333.98	1827.58	165.96	92.86	

	"COLCHICINE" s): 6, 24, 48 hre		Ally. Doc		921-5039W( o. 1793397.
ldentifier	NonToxMean	NonToxSD	ToxMean !!	ToxSD 🗽	LDAScore
23166	132.81	58.53	371.64	112.54	97.29
4412	377.59	61.12	558.75	77.91	96.99
18151	1133.81	261.37	563.27	117.10	96.47
15964	1187.13	325.69	508.38	159.50	96.12
11618	419.37	129.59	119.80	80.64	96.12
16882	177.88	54.70	82.96	14.87	95.78
24321	722.16	202.93	318.04	123.60	95.43
9097	258.85	82.10	115.52	31.47	95.05
20001	1683.96	373.32	1059.37	114.06	94.92
16913	1386.59	297.09	894.57	81.02	94.75
17887	1461.63	317.71		208.19	94.70
16924	445.74	155.90	838.24 188.36	46.16	94.70
		211.78			1
20988	1221.44		853.97	84.52	94.49
22271	275.62	66.08	156.87	37.40	94.32
2222	802.84	200.86	537.76	35.92	94.06
6806	1236.90	342.77	566.10	189.93	94.01
13855	22.06	28.83	139.05	42.55	93.95
20513	57.97	25.96	166.84	71.44	93.82
9296	1306.96	257.77	840.48	105.26	93.80
643	62.16	32.97	14.32	5.63	93.71
16982	128.17	257.40	1462.72	552.54	93.60
20312	405.72	95.10	209.02	92.75	93.58
4073	562.17	184.40	230.54	83.32	93.58
3925	477.10	119.06	265.65	66.28	93.45
2913	736.68	160.48	481.77	40.00	93.24
10984	2020.41	564.71	1032.75	348.86	92.98
22321	100.73	64.58	321.87	131.71	92.96
2767	44.79	40.13	182.37	66.23	92.91
4151	563.27	167.25	920.16	111.75	92.89
7615	90.46	40.50	169.26	27.71	92.81
17399	1980.57	449.65	1255.63	187.29	92.64
6552	1594.49	296.14	1077.60	126.50	92.64
13111	228.20	73.35	132.80	17.16	92.59
13727	124.04	53.37	38.71	19.99	92.55
18642	974.76	203.55	664.60	62.35	92.55
3050	91.21	49.08	313.78	134.78	92.53
3438	114.03	57.15	38.70	14.25	92.51
20405	33.56	28.74		64.39	
			132.47		92.48
14185	202.17	89.20	491.51	237.69	92.48
16849	114.55	44.14	48.23	13.11	92.46
12901	1626.70	415.03	1002.61	177.27	92.42
20697	1421.26	277.19	931.95	163.03	92.25
3837	359.37	91.36	235.96	24.61	92.25
17361	145.97	59.92	56.10	14.57	92.20
17329	213.41	103.82	524.01	86.38	92.18
15600	774.27	210.27	435.87	107.62	92.08
16879	1207.58	276.77	796.63	98.39	92.03
1330	500.26	160.51	241.64	84.25	92.03
22152	7.72	33.71	81.27	38.69	91.79
21053	105.50	59.69	39.98	16.30	91.69
17324	360.96	79.01	153.55	65.98	91.58
7540	155.81	94.07	328.58	92.44	91.58
16128	286.68	62.49	192.02	31.18	91.56
4790	165.31	84.94	49.50	20.48	91.52
23115	570.61	171.16	295.42	91.28	91.47

TABLE 50:	COLCHICINE		AWy. Doc	let No. 449	21-5039WO
Minepoint	s)): 6, 24, 43 hrs			Dog N	o. 1793397.1
ldendffler	NonToxMean **	NonTexSD :	ToxMean		
11057	32.46	28.53	120.72	43.20	91.41
7537	230.23	69.42	125.41	29.85	91.34
19822	1596.44	410.54	942.00	210.50	91.26
17386	303.88	93.74	128.16	41.06	91.02
17248	2568.34	534.75	1704.94	295.46	91.00
15191	2013.99	1219.17	2599.48	219.23	90.96
1141	240.56	63.32	390.27	85.33	90.93
3099	966.22	189.19	660.01	95.36	90.70
21024	577.99	113.27	331.56	66.79	90.59
8709	148.12	48.57	78.15	19.09	90.57
19731	226.36	215.21	98.99	29.40	90.57
6250	492.94	104.90	372.14	23.59	90.53
117	21.16	17.56	-5.10	9.54	90.44
17401	907.31	422.79	1550.66	328.51	90.42
15377	25.87	15.51	55.07	8.41	90.42
17326	22.55	24.06	93.51	28.61	90.42
22697	59.78	40.38	12.83	13.23	90.35
14595	87.77	36.04	175.49	38.60	90.29
9223	150.65	64.81	54.19	23.82	90.27
8785	209.90	55.55	288.76	24.92	90.22
9339	360.32	89.43	226.70	47.31	90.22
23253	624.10	163.49	380.42	78.17	90.09
25907	19.74	25.13	47.86	14.93	90.09
15893	1733.99	343.83	1225.85	165.26	90.05
23514	407.55	167.53	162.38	70.14	89.97
3875	510.89	136.65	232.91	81.51	89.90
406	362.17	77.76	250.18	48.87	89.88
18343	437.98	107.72	280.49	46.68	89.79
25461	49.71	22.92	20.96	5.68	89.75
10789	326.18	107.75	117.23	67.68	89.73
23145	44.09	20.22	87.09	15.12	89.73
4048	-7.14	26.09	121.21	153.77	89.66
11174	53.20	50.67	171.90	46.40	89.64
23709	2491.22	1205.88	2706.26	145.13	89.45
23224	194.78	48.70	129.40	19.04	89.41
11215	143.29	71.54	28.34	56.76	89.23
19479	276.88	106.02	134.33	36.73	89.23
15872	152.44	63.81	467.24	163.94	89.23
10985	1146.00	265.29	633.75	164.98	89.17
18451	1444.75	418.00	943.24	132.82	89.10
812	157.19	35.17	88.26	32.94	89.04

PCT/US02/16173

	CYCLOPHOSPI	(AMIDE : :	Aligy.	Ality. Docket No. 44921-5039W			
	S)): 6 lius - Inonververin	Nonioxse	Toxinean	<u> </u>	No. 1793397.		
		604.39	6128.97	335.19	99.53		
7089	1545.78		1532.22	184.12	99.40		
6081	113.02	372.25					
23619	327.35	96.06	660.24	21.96	99.32		
5393	-31.45	22.77	27.35	5.29	99.32		
24049	1517.02	432.93	3280.45	348.50	99.10		
22698	261.92	112.70	-415.61	188.19	99.06		
26222	371.68	149.80	1265.79	372.61	98.76		
18118	895.16	271.71	2268.31	465.94	98.67		
16469	1143.78	291.23	1083.34	3.98	98.67		
7066	37.10	19.62	-6.41	5.49	98.67		
7084	123.08	117.51	622.25	1118.49	98.59		
24213	1604.12	394.78	3341.49	503.25	98.54		
3470	143.86	59.86	458.18	196.11	98.54		
23711	4518.75	2192.54	16927.73	3240.54	98.50		
8831	4165.13	1320.79	10676.69	1466.84	98.50		
108	289.68	144.40	164.86	3.48	98.46		
1409	425.27	87.17	260.86	8.34	98.46		
3815	1664.61	111.50	420.20	41.92	98.46		
12130	90.83	34.97	39.25	3.30	98.42		
3213	3583.64	1528.59	10080.02	1528.73	98.42		
109		312.14	239.04	32.06	98.42		
	556.91	19.25	-16.57	5.06	98.29		
21637	28.01	22.12	-47.81	46.21	98.16		
5819	42.77						
4	34.58	17.78	-3.41	3.04	98.16		
5154	256.83	383.44	-1506.42	1100.74	98.12		
13412	28.40	24.99	148.78	61.50	98.12		
5720	68.84	60.28	240.34	21.68	98.12		
5117	162.84	78.90	364.60	35.27	98.07		
5329	47.29	21.30	10.39	2.22	98.07		
21866	109.05	73.32	379.42	172.12	98.03		
14953	482.64	76.56	311.16	19.07	97.99		
18350	90.05	49.29	301.03	46.70	97.99		
2029	305.29	103.47	350.85	2.68	97.99		
3837	358.84	91.24	173.81	19.49	97.95		
25721	83.34	54.43	240.21	44.54	97.95		
6272	191.69	64.06	131.07	3.08	97.95		
969	1516.76	347.22	2916.15	354.10	97.90		
1689	4338.65	2126.09	15982.97	5400.06	97.90		
1232	137.19	62.23	27.42	11.32	97.90		
3049	202.76	101.21	529.19	69.46	97.86		
18800	2711.70	1148.84	6417.82	556.95	97.86		
			324.02				
14424	67.07	130.91		83.71	97.86		
3849	222.06	71.45	477.43	62.77	97.77		
25777	404.46	182.63	824.09	102.83	97.77		
6902	66.96	91.89	-172.67	27.28	97.77		
23078	147.27	46.50	55.48	8.60	97.77		
5461	193.94	117.20	396.91	37.67	97.73		
24814	171.74	33.51	92.18	13.93	97.73		
0860	46.07	29.90	-6.09	2.93	97.69		
698	74.37	76.29	197.25	24.89	97.69		
5408	193.87	58.16	69.92	11.05	97.69		
7832	1948.88	851.66	5675.58	2032.21	97.65		
7127	280.56	95.94	21.98	52.78	97.65		
744	334.35	68.28	208.28	11.29	97.60		
3081	387.30	84.71	227.05	31.49	97.56		
18918	31.10	27.35	-32.80	10.09	97.56		

	CACTOSHORSHI		. Align l		14921-5039W
	<u> </u>	ĝ.			No. 1798397.
	Nonioxmean 🤲		New Tries		
15154	267.93	62.29	131.15	21.56	97.52
17771	768.98	305.15	1490.79	130.43	97.52
20493	460.39	110.11	297.05	12.72	97.47
24437	68.49	25.43	175.35	41.14	97.47
8999	47.02	23.49	1.97	4.96	97.47
15382	122.71	202.12	570.78	188.00	97.47
3599	378.10	107.09	181.07	19.58	97.47
17682	672.30	178.35	399.02	29.34	97.43
22862	103.01	36.20	42.20	6.28	97.39
20920	626.34	183.56	421.78	11.19	97.39
17334	173.83	58.72	358.42	40.10	97.39
4067	123.98	59.95	245.14	32.72	97.39
7357	269.19	82.48	105.14	28.10	97.39
23314	72.17	276.94	318.28	105.05	97.35
19190	534.12	144.15	283.73	32.84	97.35
16943	2759.04	872.63	5041.36	392.40	97.35
16947	319.84	80.34	186.33	13.16	97.35
3405	380.95	93.60	241.49	11.37	97.35
9053	239.61	50.65	135.66	11.51	97.35
25253	293.63	65.17	155.93	16.09	97.30
688	5256.94	3710.90	21624.32	7449.14	97.30
9993	2319.53	566.29	3763.82	221.97	97.30
20846	2377.64	663.94	3619.10	135.20	97.30
22142	32.37	17.29	0.24	3.37	97.26
7602	131.67	36.83	52.59	13.48	97.26
8274	300.34	63.28	159.26	25.71	97.26
5410	504.68	101.83	257.23	33.63	97.22
7299	181.01	153.33	372.36	39.71	97.22
3585	649.58	366.37	1390.92	91.78	97.17
7426	537.84	84.20	386.94	14.48	97.13
15190	1818.28	1175.28	4173.32	371.68	97.13
3598	349.78	108.22	755.01	165.06	97.09

TABLE 50	DIFLUNISAL	<b>"我们就是</b>	· Awy. Doc	ket No. 44	921-5039WO
Timepoint	s): 24 hrs	A State of			lo. 1798397.1
ldendifier	NonToxMeen "		ToxMean	ToxSD ···	LDAScore:
15582	98.54	389.02	523.22	20.51	99.87
23699	325.81	88.09	984.09	67.68	99.79
1858	165.70	50.67	468.35	55.34	99.66
18687	415.65	168.60	1876.04	173.83	99.66
20810	1260.74	402.11	2154.96	30.08	99.44
23698	272.98	101.50	824.56	62.23	99.44
15906	73.43	105.60	328.56	63.09	99.40
21354	414.86	118.96	1273.64	189.63	99.36
16918	1181.89	410.28	2103.00	56.71	99.36
15048	861.35	213.04	1349.81	15.30	99.32
17758	126.22	53.45	567.25	114.93	99.14
23504	176.69	49.53	287.50	5.80	99.14
18686	468.60	214.77	2050.51	247.31	99.14
5351	711.19	145.06	979.89	15.97	99.06
18083	48.75	24.85	148.28		99.06
1977	142.19	40.33	293.78		98.97
20833	1254.24	350.22	1826.03	17.16	98.84
4012	650.38	267.26	1484.68		98.84
18250	1093.45	315.54	1684.15		98.80
26109	69.08	76.43	458.33	59.25	98.76
4049	23.28	65.36	63.64		98.76
	101.76	41.27	57.70	0.48	98.76
25679	901.31	261.02	1610.91	63.61	98.76
5887	79.37	88.10	285.80	15.29	98.63
	535.77	161.09	346.74		98.54
6380	135.92	123.74	459.26	82.61	98.54
					98.42
5667	289.86 744.60	77.14 177.74	519.55 1191.89	38.45 49.47	98.42
		235.09		158.85	98.37
			1635.35		
15579	32.24	115.84	189.18	29.09	98.33
	251.55	67.39	138.00		98.29
16849	114.09	44.40	66.30		98.20
	95.99	152.88	276.60	38.55	98.20
11205	594.93	193.66	371.24	5.25	98.20
17211		553.34	2327.85	45.31	98.16
19244	1224.59	378.82	2305.53	135.95	98.16
1728	351.65	81.13	555.88	47.36	98.16
	965.06	407.94	2268.41	360.66	98.12
17563	1201.51	347.34	2039.09	80.83	98.07
19067	174.78				98.03
	38.55	133.68			98.03
		83.07	105.20		97.99
				41.43	97.90
		86.76	506.29		97.90
	755.43	187.45	1101.24		97.90
24748			33.61		97.86
	567.21		803.19	32.26	97.82
	256.34	73.77	451.80	35.28	97.77
20715	135.54	60.66			97.73
		273.83			97.73
	1016.62	266.11	1780.84		97.69
	36.18	25.28	113.63	23.08	97.65
3027	1127.48	331.63	1758.65	53.48.	97.65
23849	287.19	137.85	391.28	6.74	97.60
23043 [	207.10				

	EDIFLUNISAL	E. S. S. Waller	AMY. DOG		1921-5009W
	(s): 24 hrs	- - -	S00		lo. 1798397
dendifier	NonToxMean				LDAScore
1814	171.85	47.69	123.88	1.67	97.56
20839	1043.73	290.47	1565.67	42.99	97.52
16190	288.78	81.68	502.75	35.87	97.52
15875	1183.10	392.02	1973.54	86.87	97.35
16701	830.81	197.66	1528.91	267.69	97.35
15106	1887.41	709.31	3311.08	123.87	97.26
3434	326.00	140.86	131.21	15.66	97.26
21729	582.55	246.48	1512.04	499.79	97.26
19952	67.28	24.42	23.96	3.74	97.26
20818	681.56	422.22	1663.94	317.99	97.17
20149	1324.01	582.48	2795.60	215.42	97.17
14959	619.74	147.94	1010.98	113.74	97.13
16148	762.99	195.12	1313.23	188.91	97.13
24886	1263.69	371.87	2046.76	132.13	97.13
10878	952.87	253.83	1373.59	38.24	97.09
8946	207.89	87.83	74.88	7.06	97.09
19477	112.98	54.74	250.89	20.66	97.00
15468	734.22	179.64	1032.19	49.88	97.00
10109	1045.52	288.55	1597.93	74.73	96.96
3924	182.19	68.67	273.97	5.41	96.92
18918	31.02	27.50	-11.16	3.27	96.88
17729	878.67	224.12	1508.83	163.08	96.83
14695	1736.29	632.39	2885.22	95.16	96.79
9799	145.87	50.77	85.38	3.80	96.79
20925	337.86	103.37	649.53	101.58	96.79
25501	102.21	56.92	20.07	8.06	96.79
7062	686.14	173.76	1144.72	115.88	96.79
5398	0.40	12.35	33.62	24.14	96.75
20711	43.78	42.18	150.73	22.20	96.75
373	34.25	61.71	167.08	44.08	96.70
16929	956.64	234.98	1405.43	58.88	96.70
20817	1073.65	677.30	2215.68	400.07	96.70
4291	295.13	101.25	151.24	8.90	96.70
23336	141.91	43.60	268.14	38.59	96.66
23270	209.26	61.36	302.15	9.89	96.66
4259	700.25	158.48	1007.49	53.89	96.66
18509	418.06	82.28	584.02	27.38	96.62
1694	1145.19	337.82	1796.01	81.50	96.58
4011	459.62	198.95	896.31	148.45	96.53
6949	1.61	27.50	36.30	10.98	96.49
4713	107.84	37.11	71.04	3.04	96.40

inicepailT	: ETH 6 :((2)	1 Jan 188		.Dog. [	921-5039W. lo. 1793397.
refillmeb!	NonToxMean.	NonToxSD=	ToxiMean .	ToxSD 🔙	LDAScore.
23230	381.93	101.69	164.86	3.08	99.83
7299	180.37	151.55	684.70	26.37	99.66
11005	71.62	20.88	31.26	0.53	99.66
18715	190.60	53.82	312.84	2.17	99.66
18713	300.35	70.22	564.29	26.19	99.62
9306	45.76	18.52	121.89	7.27	99.62
19004	788.98	306.09	794.75	1.65	99.57
9525	5.08	44.31	64.20	2.12	99.57
19712	98.45	32.90	58.61	0.21	99.53
16203	66.52	16.97	45.27	0.17	99.53
	58.53	27.11	242.01	35.67	99.49
5918	26.70	40.82	72.84	4.20	99.44
14479	473.36	112.67	261.32	4.86	99.44
4194	34.33	17.04	74.46	0.76	99.40
8948	217.22	104.91	343.57	1.20	99.40
15015	503.71	91.72	339.92	3.82	99.36
22746	534.33	197.34	312.42	2.15	99.36
13235	16.43	13.42	75.50	8.64	99.32
	93.87	50.03	147.79	0.44	99.32
16069	59.01	26.48	31.64	0.25	99.32
20523	549.70	152.39	1021.93	29.01	99.23
15872	155.66	71.91	53.38	1.82	99.23
3513	171.87	35.63	273.79	6.58	99.19
7452	8.04	13.04	37.85	2.68	99.19
	92.43	24.57	82.57	0.16	99.14
	241.04	57.82	387.68	12.70	99.14
20849	277.59	87.41	309.60	0.68	99.06
13298	101.48	29.62	51.68	1.68	99.06
11406	242.13	50.08	177.73	0.85	99.02
7071	133.86	64.50	98.99	0.88	99.02
23189	330.92	72.72	460.60	3.57	98.97
	303.87	90.07	657.96	59.65	98.97
8692	1045.40	309.78	638.87	9.02	98.97
22614	17.91	87.18	86.87	14.83	98.93
4969	-18.84	34.82	77.79	30.12	98.89
3081	387.16	84.82	227.51	15.13	98.89
15231	100.29	44.00	233.89	22.19	98.85
	230:65		294.11	1.11	98.85
15942 18406	33.60	65.79 18.22	70.49	1.79	98.85
	239.14		487.33	52.09	98.85
2539		63.32 51.90	304.80	46.42	98.85
	46.96 124.62				
26119 6723		46.64	176.21 91.78	1.26 10.99	98.80 98.76
	200.38	72.05			98.76
21878	144.05	35.94	106.39	0.58 4.54	98.72
8664	106.71	250.43 80.73	160.02	37.53	98.72
21014 14842	155.47	80.73 45.94	369.94 280.85	20.55	98.72
	122.80 700.37				98.72
13093		165.48	367.14	36.76	
20404	53.45	44.01	336.92	98.70	98.72
15126	792.34	224.59	1256.68	25.48	98.67
4948	153.55	61.38	307.30	11.57	98.63
6844	123.76	58.60	32.99	3.47	98.63
16025	150.51	42.20	268.08	8.85	98.59
7615	90.87	40.61	221.25	17.10	98.55
22575	20.61	15.66 55.53	10.19 490.92	0.32 129.05	98.50 98.50

	R: HYDRALAZI ((s)): 6 hts		بروهاي المر		MEZ1-5039W No. 1793397.
	INONTOXMean		Tank		LDAScore
ldentifier				ToxSD	
15636	39.88	26.09	4.00	1.07	98.50
15885	93.27	28.63	182.42	15.91	98.46
5355	1164.75	345.23	1050.46	4.54	98.46
13151	711.00	343.67	1290.08	71.04	98.46
19195	1555.05	374.36	1121.86	8.23	98.42
6606	249.66	121.42	743.36	159.90	98.42
2888	2015.72	588.67	1201.76	29.67	98.42
20405	34.08	29.57	195.15	62.34	98.42
7197	197.58	84.65	309.34	7.55	98.42
1215	67.05	49.57	246.66	40.98	98.42
17479	157.69	34.71	89.24	4.57	98.37
22733	21.90	14.11	64.22	8.36	98.37
1920	426.50	112.57	740.10	44.20	98.37
8745	57.56	19.95	100.05	2.83	98.33
22915	171.30	47.15	114.08	2.66	98.33
25587	24.39	16.37	17.05	0.15	98.33
13259	68.80	25.82	161.38	28.29	98.33
17468	396.41	77.87	278.70	4.37	98.29
14405	465.44	308.54	1276.71	188.93	98.25
14861	48.74	17.37	75.52	1.15	98.25
3027	1129.44	333.52	1205.87	5.52	98.25
1214	165.46	52.58	424.14	92.45	98.20
11158	1023.54	302.35	1115.38	6.37	98.20
20202	624.37	196.92	959.56	18.31	98.20
18290	275.55	78.31	420.92	7.75	98.16
21527	239.85	60.68	369.29	12.50	98.16
24885	1107.60	334.53	1092.86	5.80	98.16
23689	0.64	11.77	22.99	3.94	98.16
8869	8.35	21.59	31.83	0.60	98.16
17502	147.76	53.99	264.34	13.12	98.16
13203	-15.66	28.87	51.81	11.94	98.12
25971	106.47	34.61	50.27	2.15	98.12
13095	60.49	15.80	32.26	1.41	98.12
26036	34.25	17.22	19.79	0.49	98.12
17570	230.73	71.54	273.93	2.11	98.08
22543	689.99	222.20	447.42	9.98	98.08
17312	26.98	34.41	42.60	0.40	98.08
16026	221.52	75.94	411.54	26.17	98.08
5684	333.75	76.46	482.85	10.21	98.03
15879	374.14	93.39	276.43	3.61	98.03

19252 1622 16148 17779 12932	): 6, 24, 48, 144 h  NonToxMeen :: 647.94   2071.83   767.65	S  NonToxSD   142.98			<u>o. 1798397</u>   LDAScore
9252 622 6148 7779 2932	647.94 2071.83			1000000.3	
622 6148 7779 2932 1158	2071.83	1142.98	1		
6148 7779 2932 1158			520.93	34.13	89.74
7779 2932 1158	1767 CE	907.04	1625.21	143.87	88.88
12932 1158		197.63	575.47	57.95	86.32
1158	1952.57	790.85	1617.53	137.53	85.80
	153.85	49.70	108.04	13.75	85.63
	1027.66	302.42	759.65	56.80	85.37
0947	1800.32	754.28	1416.69	180.51	85.28
9408	2011.57	680.23	1580.63	160.66	85.24
6013	58.91	18.74	71.23	5.22	85.11
9254	241.32	76.35	239.54	14.43	85.06
7886	1504.90	495.37	1122.51	90.54	84.72
6895	2027.29	906.56	1603.00	189.71	84.63
8300	450.17	150.80	316.95	39.08	84.33
3211	2862.98	1618.85	2138.69	273.26	84.29
23710	1141.57	367.03	897.82	79.04	84.20
1954	3141.99	1699.73	2471.68	314.40	83.90
853	2014.76	833.49	1614.19	220.80	83.90
4695	1746.72	637.07	1297.75	126.83	83.77
3212	2267.04	1143.40	1689.07	186.62	83.42
3976	453.36	377.22	783.29	266.52	83.38
4997	2596.32	1029.67	2216.17	249.47	83.20
23709	2500.59	1207.33	1994.07	261.44	83.16
2592	234.68	168.43	397.15	108.13	83.08
8142	2001.91	840.95	1479.52	180.12	82.99
9135	719.00	131.99	601.54	43.95	82.90
4694	2326.49	1072.07	1849.47	243.07	82.69
8810	1189.60	320.47	979.08	72.74	82.60
8077	2627.05	1191.54	1778.68	232.31	82.56
5125	1303.70	426.26	1007.41	95.34	82.55
20751	706.77	161.80	835.79	96.53	82.51
4	34.24	17.91	48.60	8.82	82.47
23544	1515.02	495.50	1325.70	110.75	82.17
9993	2320.17	574.10	2616.44	234.66	82.03
942	443.45	98.80	518.47	38.50	81.95
7682	673.25	179.30	543.60	51.66	81.95
23574	2282.20	973.76	1808.58	200.84	81.82
815	1138.28	344.89	837.60	73.20	81.65
1050	671.41	139.50	791.75	84.37	81.60
247	1310.50	504.69	915.02	93.84	81.60
8078	1152.53	545.02	1014.06	139.87	81.56
801	97.60	29.90	123.54	20.25	81.43
2901	1613.41	414.49	2126.00	326.75	81.39
20035	182.08	110.21	229.47	33.04	81.39
7118	53.61	19.28	66.07	6.68	81.30
7204	1733.32	660.21	1299.09	155.20	81.26
3847	47.46	36.72	90.72	17.29	81.21
0500	24.88	31.73	53.21	18.49	81.17
347	76.96	46.62	110.08	23.49	81.13
3015	2318.93	997.42	1869.25	225.78	81.04
0832	722.84	197.13	591.89	72.43	81.00
8615	521.90	148.77	363.34	55.31	80.95
989	269.37	71.43	354.20	68.39	80.91
9894	40.81	20.31	62.51	16.62	80.83
8076 21423	2548.69 1355.89	1193.37  429.81	1768.87 1080.04	244.55 115.43	80.83 80.78

നുകളും പ്ര	FOSFAMIDE		ACCA DOS	Short Ma AM	921-5039WG
1911 20 1911 1911 1911 1911 1911 1911 19	): 6, 24, 48, 144 h	8	CARRA BOOK		1790397.1
ldentifier.	NonToxMean"	  NonToxSD:			
1523	89.47	23.47	100.14	7.66	80.70
11991	57.24	22.13	76.61	11.20	80.65
23109	2089.70	930.42	1566.07	197.88	80.44
19727	1331.92	420.23	1162.29	117.79	80.44
18451	1434.72	418.40	1801.12	288.28	80.39
23884	41.09	33.35	54.46	12.98	80.39
472	662.53	178.22	500.21	63.31	80.35
11153	1474.65	500.35	1320.86	134.33	80.35
23125	4577.67	2547.90	5632.15	1198.40	80.31
12598	545.25	95.85	644.01	73.00	80.31
915	30.40	17.20	53.68	14.78	80.26
6808	698.18	193.62	893.93	94.12	80.26
10260	85.57	33.38	94.71	10.64	80.18
25545	94.20	49.43	150.75	32.71	80.09
23660	1281.20	383.06	1072.18	89.30	80.09
15410	504.96	102.87	427.16	47.59	80.05
977	16.73	10.91	41.99	18.19	80.01
15137	1520.02	496.49	1254.30	128.20	80.00
26109	69.41	79.57	138.16	53.60	79.96
11136	1003.50	311.85	725.42	110.05	79.92
4217	519.77	126.27	592.35	45.95	79.92
13480	650.24	137.90	533.92	69.48	79.83
15535	448.65	83.59	358.13	46.40	79.79
15426	411.88	86.42	342.56	30.90	79.66
16012	73.15	32.18	78.40	10.56	79.65
4849	773.73	168.65	929.55	91.93	79.61
17765	1296.75	460.31	914.95	107.23	79.61
23967	383.11	92.35	484.27	65.27	79.53
9905	673.59	140.94	588.24	39.94	79.53
1583	30.08	18.99	43.08	7.71	79.53
1743	29.18	16.19	50.78	15.93	79.40
15446	370.71	93.07	266.06	61.63	79.40
18905	1363.50	302.26	1680.54	182.30	79.36
24049	1519.32	446.29	1776.05	182.78	79.31
24626	1504.58	431.27	1251.16	114.87	79.31
820	2467.06	1167.88	1920.44	339.35	79.22
1684	2833.17	1621.88	1212.60	870.83	79.22
21373	373.62	85.16	332.82	32.95	79.22
16211	2261.75	1141.46	1652.93	320.55	79.18
16521	285.41	90.61	359.56	55.31	79.14
22661	1309.12	421.45	1003.73	117.38	79.01

Minicepoint(	INDOMETHAC 3): 43, 72 lus	a the San and		. · Doc. R	<u>lo. 1793397.</u>
ldeniiiier:	NonToxWean	NonToxSD 🛪	Toxillean 🤄	ToxSD	LDAScore
155	21.42	16.98	101.88	13.61	99.53
154	112.29	36.99	249.23	25.25	99.27
16173	14.63	13.08	179.81	66.16	99.18
13614	340.21	88.42	786.72	118.82	99.01
1850	46.85	347.25	309.01	159.03	98.93
22499	8.20	11.83	58.62	9.91	98.88
1893	29.44	20.17	163.67	70.52	98.84
1221	0.23	15.64	193.08	98.35	98.80
21445	0.99	14.21	203.14	86.78	98.75
1854	43.31	289.94	282.61	143.16	98.67
25517	38.27	31.10	173.50	50.20	98.58
19710	43.43	20.81	132.45	42.06	98.54
6431	51.07	32.99	209.15	53.95	98.50
	288.90	75.46	543.74	54.46	98.45
7299	177.44	143.66	797.13	276.35	98.41
23964	12.50	18.01	63.92	17.10	98.37
1943	31.78	14.21	86.66	15.03	98.15
13615	253.23	68.59	560.03	77.71	98.15
20713	215.61	108.00	606.67	98.17	98.11
24237	56.39	37.15	281.98	103.56	98.07
3565	31.85	16.10	105.94	38.19	98.02
7540	154.84	89.44	535.02	179.10	98.02
1845	-7.69	24.61	109.59	48.06	98.02
18684	-7.09 137.77	49.02	305.11	48.29	97.98
		7.47		40.75	97.98
7858	-4.71 -400 40	1	47.48	44.39	
15408	192.19	56.59	376.55		97.98 97.94
10281	172.58	185.66	567.51	296.37	
18867	103.82	49.82	263.24	51.22	97.94
18353	112.33	68.84	349.21	48.50	97.94
20715	134.85	59.63	354.19	34.91	97.90
6551	576.57	201.46	1150.85	135.93	97.90
7665	282.66	95.03	609.80	128.48	97.90
20868	22.06	17.54	98.66	30.62	97.85
343	28.72	32.40	151.55	21.38	97.85
20869	21.84	21.14	111.52	32.81	97.85
20711	43.08	40.65	197.85	41.42	97.77
16521	283.95	85.02	655.14	127.79	97.59
21444	19.93	43.02	180.28	49.29	97.51
21683	33.96	22.93			97.47
3180	309.65	80.63	524.23	45.30	97.47
1942	17.90	24.48	99.74	38.19	97.47
14184	113.17	49.05	251.46	48.41	97.42
1894	202.61	73.39	421.42	64.64	97.42
15851	200.88	151.27	525.10	94.05	97.38
20700	85.68	416.32	391.89	193.02	97.38
1749	234.65	200.18	431.09	62.04	97.38
5094	138.21	54.26	356.45	88.21	97.38
2555	96.41	46.12	235.98	52.95	97.34
3260	193.81	71.46	443.67	108.75	97.34
19012	483.92	149.86	930.52	98.29	97.21
5887	77.25	81.17	491.60	169.72	97.16
20041	192.79	82.66	490.91	119.03	97.16
6007	26.63	17.31	92.50	26.48	97.04
21653	236.04	61.07	399.34	79.22	97.04
13004	142.59	42.21	275.32	36.65	96.99

TABLE ST: Timeroing	INDOMETHACI 3): 43, 72 hrs	N A A A	Affy, Docket No. 44921-5039W Doc, No. 1793997		
	NonToxMem;				
19387	667.36	146.95	1017.20	82.56	96.99
2554	53.34	18.18	111.59	20.52	96.99
4661	307.32	90.25	543.97	56.72	96.91
21467	13.64	131.26	140.69	60.68	96.86
18352	162.12	85.33	437.38	90.35	96.86
15191	2030.38	1211.92	434.31	67.70	96.86
24183	68.30	35.60	194.82	48.12	96.82
4748	110.39	127.49	266.50	52.38	96.82
19711	83.58	22.63	149.45	21.04	96.82
848	18.09	11.05	45.15	4.76	96.65
10015	231.63	76.39	422.68	89.46	96.65
11708	319.08	90.36	587.03	103.59	96.65
22321	101.90	68.06	234.02	51.42	96.61
1597	50.19	41.89	187.05	63.28	96.61
6120	511.17	159.69	914.06	106.73	96.52
20714	178.33	78.97	430.20	87.05	96.52
24200	421.16	141.29	847.55	177.88	96.52
3316	8.48	11.20	32.02	7.24	96.48
14595	87.99	36.42	175.31	16.47	96.39
21654	362.19	114.34	536.63	59.58	96.22
22479	433.07	146.06	846.76	137.55	96.18
18687	418.98	188.38	661.54	59.97	96.13
5572	330.93	144.21	692.30	98.63	96.09
3020	292.14	93.53	549.45	92.30	96.09
25366	52.69	46.59	140.27	34.35	96.01
11183	98.16	39.08	183.02	34.74	96.01
19145	363.77	71.33	513.30	38.33	95.96
15409	399.23	98.94	637.09	62.27	95.88
17950	64.06	23.04	112.35	10.61	95.79
16945	934.12	162.35	1222.61	66.01	95.79
16917	755.96	258.94	1351.72	135.35	95.75
9286	205.05	59.59	354.73	51.76	95.66
18217	15.31	19.01	63.19	16.35	95.62
14185	203.46	94.18	411.57	81.62	95.62
16646	28.33	20.91	71.67	15.31	95.58
23837	100.89	40.39	206.26	37.38	95.53
21066	43.85	16.28	90.93	15.15	95.53
18068	82.30	21.15	125.33	8.28	95.49
21410	183.82	61.54	326.34	61.71	95.45
18355	56.83	27.50	129.21	39.86	95.36
6044	327.15	91.24	520.74	70.39	95.36
23145	44.14	20.10	96.23	26.84	95.32
16859	122.48	51.26	241.14	54.89	95.27
15246	63.40	20.73	113.00	17.39	95.19
24019	27.09	25.66	86.45	18.38	95.19

			Alty. Docket No. 44921-5039W			
	s)): 120 kms 👑 👑 👙 😁		Doc. No. 1798397.			
ldendifier 🖓	NonToxMean 🥳	NonToxSD, ;;	Tox:Wean	ToxSD	LDAScore	
24019	27.07	25.30	127.00	8.27	99.61	
14421	418.40	87.55	639.64	12.93	99.57	
13641	47.49	30.07	145.93	13.26	99.53	
1463	619.17	296.16	1455.45	46.93	99.53	
16300	61.51	20.88	147.76	15.29	99.49	
13974	296.90	139.79	1260.41	77.75	99.49	
3244	127.45	30.43	40.35	2.64	99.36	
10464	131.43	35.68	41.70	2.59	99.36	
1462	407.93	201.27	1216.38	60.80	99.36	
18525	246.32	66.03	97.58	6.10	99.27	
14227	72.35	65.02	265.04	34.60	99.23	
25741	185.55	57.43	490.81	62.92	99.23	
1224	3.70	11.53	50.50	8.69	99.23	
13880	679.69	204.44	295.39	24.01	99.14	
14261	39.73	17.42	113.90	16.40	99.14	
18472	1551.82	378.09	827.52	66.71	99.10	
15363	446.56	133.55	187.16	15.68	99.06	
3598	139.25	41.61	362.49	73.57	99.01	
5176	217.77	121.65	603.36	60.94	98.93	
14754	99.93	24.11	228.47	44.23	98.93	
20849	276.44	85.41	565.38	36.71	98.93	
15955	750.17	198.73	371.84	30.56	98.89	
14633	97.72	88.30	-1.97	5.36	98.84	
15371	378.04	55.30	593.66	40.88	98.80	
17342	202.36	532.80	480.79	60.48	98.80	
20809	317.42	60.81	558.00	56.79	98.80	
16650	256.32	82.88	614.21	64.30	98.80	
18109	19.25	21.24	92.33	9.99	98.76	
18286	10.51	10.22	41.67	5.33	98.76	
24049	1526.25	442.84	773.94	52.98	98.76	
16245		115.78	64.71	31.63	98.76	
	386.32					
23651	656.57	627.85	1600.29	142.54	98.76	
574	335.41	164.90	679.82	42.41	98.71	
20099	81.48	29.97	171.81	18.17	98.71	
1976	24.82	21.34	269.98	118.48	98.71	
23294	244.42	55.35	115.25	8.35	98.71	
3733	340.43	153.36	790.69	47.48	98.67	
23957	68.22 .	41.24	264.04	43.03	98.67	
3348	496.09	130.59	245.12	25.78	98.67	
20697	1418.84	278.90	908.67	36.86	98.67	
260	415.71	110.33	903.01	137.68	98.63	
19321	313.57	55.98	464.14	23.58	98.63	
3597	240.21	54.94	523.47	111.57	98.63	
7159	699.06	218.26	1124.72	53.18	98.63	
8103	58.33	28.29	149.64	17.07	98.59	
698	1169.95	220.06	1885.00	141.61	98.59	
24648	40.24	20.33	6.76	1.40	98.59	
14020	277.14	68.14	152.09	12.77	98.54	
15246	63.64	21.09	87.26	0.84	98.54	
24115	68.51	36.48	345.37	126.46	98.54	
21997	28.94	25.26	95.22	19.06	98.54	
960	191.35	46.71	93.10	7.12	98.50	
22321	100.55	58.87	629.47	166.32	98.50	
20886	711.00	279.64	2114.90	382.05	98.50	
16354	280.15	119.74	-118.26	64.76	98.50	

	FILKHAM CHFOL		Ally. De	ocket No. 44921-5039W		
	s): 120 lors		31 31 31 31 31			
San Millione D	NonTextNeam	NonToxSD :	Toxiveen:::	ToxSD	LDAScore	
12376	19.26	124.98	83.39	19.10	98.50	
17106	81.66	24.82	36.82	2.74	98.50	
18473	2589.69	916.99	1318.66	52.24	98.50	
9254	246.49	48.78	393.24	20.14	98.46	
340	191.26	49.84	289.47	26.83	98.46	
17162	6.69	16.97	58.11	15.91	98.46	
5806	1233.36	345.85	586.60	42.84	98.41	
25840	-2.65	12.34	54.97	27.90	98.41	
20887	784.36	296.51	2396.08	485.51	98.37	
1372	199.45	51.98	391.46	35.86	98.33	
18349	140.08	38.43	262.92	23.80	98.33	
14989	500.36	106.29	910.22	99.63	98.33	
4049	23.03	65.14	113.93	24.17	98.29	
11483	65.04	45.49	132.25	10.90	98.29	
9867	29.07	22.58	-38.05	11.94	98.29	
13411	789.51	324.70	239.08	27.46	98.29	
25709	267.20	83.61	591.14	81.21	98.29	
17160	1038.70	287.67	1872.62	168.15	98.24	
12673	37.66	22.70	116.03	13.02	98.24	
25306	27.76	21.91	-55.70	19.66	98.24	
16349	47.04	14.11	94.68	13.74	98.24	
13392	190.93	48.80	355.59	34.39	98.24	
4048	-6.11	32.04	34.41	10.44	98.20	
2915	87.49	36.50	176.88	18.22	98.20	
15761	90.06	42.30	20.08	3.24	98.20	
111	590.89	237.37	1115.91	164.07	98.20	
24695	63.72	21.72	13.53	4.47	98.16	
19152	164.93	52.20	401.36	74.04	98.16	
24597	585.04	105.40	935.83	83.53	98.16	
21527	239.33	59.62	438.09	50.65	98.16	
3776	377.17	93.88	689.18	68.23	98.16	
5626	26.84	18.16	84.22	9.81	98.11	
3075	524.14	179.66	209.94	19.92	98.11	
15511	214.84	128.36	897.69	308.94	98.11	
6386	20.45	18.01	-5.75	1.87	98.07	
134	69.64	33.24	7.05	4.13	98.07	
19665	91.84	47.87	296.74	33.57	98.07	
10984	2015.62	568.01	964.72	141.17	98.03	
15247	637.80	190.94	1369.01	148.83	98.03	
2905	246.54	108.85	410.67	11.79	98.03	
2905 13343	210.51	55.05	72.01	21.01	98.03	

Table 5v: Mercuric Chloride Threpoin(s): 3, 6, 24 hrs			Atty. Docket No. 44921-5039W Doc. No. 1798397.		
rumepounk(s)): kdentifier	NonToxMean ***	  NonTox&D		ToxSD .	LDAScore
	332.39	171.86	5197.14	2943.02	99.44
3665 1475	136.94	103.32	3940.87	1974.36	99.18
		98.83	635.50	155.87	98.10
20035	178.08	55.61	273.03	109.44	98.02
19723	74.87	1177.92	5041.11	935.19	96.55
15191	1988.23		25.59	13.59	95.47
14139	80.54	27.01	2082.06	1352.81	95.23
3664	86.42	70.91	254.07	138.26	94.96
12331	594.25	155.97		280.56	94.84
17734	119.63	75.92	566.88 430.76	80.03	94.78
23579	734.95	158.66		131.74	94.48
23983	544.27	150.95	220.82		94.46
14138	84.72	29.10	33.29	12.42	94.24
16518	826.45	273.09	2395.53	930.51	
17635	651.30	148.78	358.62	92.32	93.79
7196	178.22	77.07	494.09	205.98	93.68
15850	1203.52	323.32	2507.97	545.30	93.68
24235	433.60	163.10	1038.60	349.80	93.55
21445	2.08	22.76	30.67	12.91	93.51
24649	122.93	28.55	76.77	12.19	93.49
5867	166.42	48.13	259.79	50.17	93.49
3348	497.46	129.58	259.25	78.88	93.45
15848	1313.68	402.72	2886.50	676.70	93.42
19768	706.30	166.91	1328.43	290.35	93.42
17161	1144.51	381.55	2737.15	723.56	93.33
1004	108.90	32.28	56.68	10.23	92.84
15190	1789.26	1124.32	5409.42	1117.57	92.73
14595	89.23	36.64	26.57	16.82	92.67
15189	1722.10	1120.12	5391.29	1462.09	92.60
15300	135.69	130.01	397.39	125.33	92.60
23314	67.33	271.41	622.50	259.52	92.43
15301	37.59	67.32	147.90	49.32	92.39
18944	202.65	68.48	458.00	181.57	92.30
6054	27.38	53.50	71.68	29.34	92.26
13642	209.02	74.04	85.92	29.90	92.24
23230	378.13	96.00	695.07	177.40	92.17
17211	1433.79	549.05	2360.95	279.33	91.85
3493 .	58.50	20.07	107.74	26.19	91.82
23825	283.86	49.04	166.00	50.35	91.78
18564	219.22	49.05	95.46	32.77	91.74
11680	360.19	81.92	233.52	34.79	91.68
17765	1277.82	438.77	2585.84	579.12	91.65
16982	138.22	290.89	380.00	223.17	91.57
		69.18	196.18	80.11	91.26
13610	357.65		129.83	18.36	91.26
21993	76.47	25.96 166.28	377.77	106.17	91.01
8927	745.07		197.33	57.60	90.91
11871	55.24	129.01			
11050	670.06	136.16	972.43	147.61	90.88
13507	422.59	99.12	659.30	138.95	90.83
9271	102.44	54.22	21.68	25.82	90.82
19031	59.98	47.58	145.41	39.97	90.79
24577	1168.59	364.98	2135.75	393.09	90.79
10182	2.45	99.29	78.59	59.67	90.75
18300	451.47	147.74	136.58	90.13	90.75
18259	207.76	78.23	1353.31	770.76	90.72
1928	485.55	106.87	208.21	110.11	90.66

TABLE 5V: N	iercuric chlòr	De ··········	AGY. De	dkek Ko. 44	921-5039W
There was the Melle	3. 6. 20 lines ( )	関いの の競り発出す	· · · · · · · · · · · · · · · · · · ·		lo, 1793397.
ldeniiier 👯 ै	NonToxMean : ***	NonToxSD:::i.v	ToxMean=	TOXSD : H	LDAScoio.
6632	171.87	58.89	288.22	64.66	90.53
13611	273.95	107,44	57.12	66.20	90.45
25098	43.26	30.01	276.68	179.66	90.37
22539	71.67	46.78	-27.28	37.71	90.36
20945	897.15	248.57	1469.22	277.42	90.32
19678	110.11	57.05	-19.38	53.40	90.32
23567	52.11	60.74	235.62	105.54	90.29
23868	159.82	189.43	1997.17	1212.75	90.24
812	157.29	34.98	83.70	36.70	90.19
23872	44.34	60.45	587.85	460.34	90.16
21372	276.72	65.43	134.32	44.54	90.10
18611	1409.94	446.15	2438.75	459.58	90.10
21306	126.88	54.43	52.78	18.76	90.09
3808	166.04	48.80	407.80	212.39	90.07
12031	145.86	38.78	225.16	30.38	90.06
23869	36.50	52.75	579.45	394.24	90.03
3015	2289.41	964.34	4534.92	1150.81	89.97
17908	60.79	49.95	325.35	238.47	89.90
25539	125.13	35.09	45.76	23.16	89.89
3473	120.74	34.02	69.52	20.97	89.83
2536	397.05	123.98	201.50	73.82	89.83
23826	344.12	55.78	225.14	47.99	89.80
9114	870.77	222.15	416.13	221.53	89.80
1639	97.37	22.99	62.34	12.37	89.70
20920	617.66	155.43	1397.16	623.36	89.60
20350	156.72	49.50	53.00	45.87	89.58
6615	279.24	84.15	96.62	96.14	89.50
19952	67.58	24.21	24.03	11.92	89.41
8237	102.59	36.73	179.81	51.98	89.37
11841	886.79	192.09	1632.36	479.53	89.34
2310	-47.82	40.85	36.34	37.62	89.32
15796	337.30	87.85	156.28	76.95	89.24
22681	216.80	177.12	918.02	459.53	89.21
22543	694.25	216.61	217.39	263.73	89.20
19433	110.29	59.85	445.41	230.04	89.17
22540	1828.95	538.43	794.41	586.09	89.07
17473	421.95	90.69	764.49	230.12	89.04
15875	1177.56	384.90	1982.41	472.79	88.98
18396	74.08	26.23	124.23	18.90	88.94
19	336.88	73.75	628.54	175.62	88.82
25567	456.18	167.99	922.98	373.29	88.65
20728	538.10	99.95	327.92	109.45	88.59
24351	-2.24	8.36	22.30	16.23	88.56
9053	240.22	50.14	146.06	39.78	88.55
18305	1364.98	457.67	2297.19	462.10	88.51

TABLE 5W	: PAMIDROÑAT	<b>E</b>	Ally, Doc	ket No. 44	921-5039WO
Vinacing)	s)): 24 hrs 🔆 🗀	1.		Doc. K	<u>lo. 1798397.1</u>
ldentifier #	NonToxMean .	NonToxSD 4	ToxWean 4	ToxSD a	LDAScore.*
439	55.65	23.09	35.13	0.15	99.49
381	23.05	20.96	4.85	0.20	98.80
1439	233.12	46.90	167.13	1.64	98.63
24501	526.65	117.76	477.38	1.09	98.50
815	1161.46	344.32	1840.91	46.72	98.50
21723	24.61	15.80	18.81	0.26	98.37
25907	19.98	25.22	27.99	0.55	98.33
4440	320.37	110.50	249.77	1.69	98.33
8950	91.09	33.83	64.54	0.45	98.29
1145	59.20	26.43	36.98	0.67	98.25
20257	130.93	45.11	78.91	1.23	98.20
12781	189.97	49.11	273.46	3.66	98.12
20427	796.69	192.75	1119.78	17.38	97.90
16938	1322.80	411.98	1887.43	31.46	97.90
1324	63.66	31.18	28.89	2.88	97.82
16584	115.91	45.04	161.39	2.19	97.73
17102	47.91	18.57	30.16	0.64	97.73
10227	447.34	108.01	244.96	13.58	97.69
1310	152.06	33.32	86.35	7.14	97.69
8476	3812.40	1012.46	4862.16	57.22	97.65
22051	151.18	44.26	223.47	4.06	97.65
5049	297.65	66.21	180.38	7.11	97.60
16323	68.35	35.92	36.63	1.47	97.56
6654	166.71	45.74	158.83	0.92	97.43
1651	878.67	240.75	692.24	5.18	97.39
16192	41.41	14.72	34.35	0.38	97.31
12343	50.68	18.55	31.84	0.83	97.31
691	133.51	42.32	62.52	3.81	97.26
17635	648.73	151.15	484.36	6.12	97.22
9286	205.78	60.59	319.19	10.41	97.22
14800	36.39	23.63	34.69	0.41	97.22
23888	105.90	50.58	91.90	1.08	97.13
5969	1521.63	357.02	1485.82	9.84	97.13
3475	384.13	98.77	465.98	4.26	97.05
11174	54.15	51.85	121.54	7.12	97.01
26119	124.47	45.67	234.96	195.06	97.01
18250	1094.73	316.96	1382.93	14.86	96.96
25069	133.97	60.97	77.32	2.29	96.88
18135	133.61	28.59	96.51	1.97	96.88
21742	33.31	18.06	25.78	0.33	96.83
25702	579.55	128.85	805.98	44.29	96.79
10936	207.62	43.60	191.02	1.12	96.79
12342	96.27	49.48	87.13	1.04	96.75
19976	47.03	15.83	30.77	0.70	96.75
9620	530.95	116.93	770.14	47.74	96.71
20810	1262.30	404.25	1842.66	50.26	96.71
24721	203.81	53.70	187.98	1.38	96.71
14967	49.34	21.65	19.69	1.41	96.58
1309	43.01	16.54	30.28	0.59	96.54
730	112.34	33.32	65.78	2.57	96.49
15876	1174.15	310.95	1565.93	37.98	96.49
16482	195.58	40.06	132.17	5.76	96.45
5654	41.42	24.77	86.94	5.20	96.45
15850	1216.75	351.89	1264.63	16.42	96.45
4259	700.70	159.00	935.48	29.71	96.36

TABLE 5W: PAMIDRONATE Atty. Docket No. 74921-5039W Timepoint(s): 24 lits 4 to Doc. No. 1793397.								
ldendifie			#Next Means	· ToxSD:	LDAScore:			
7010	309.13	55.63	255.94	3.25	96.36			
18880	36.99	12.90	31.14	0.58	96.32			
3007	126.64	42.37	192.91	7.32	96.28			
1375	84.74	20.63	55.45	2.98	96.28			
19244	1227.03	383.14	1715.96	64.01	96.28			
6595	76.76	35.41	102.22	2.83	96.19			
18126	701.66	166.62	548.76	14.64	96.19			
10869	11.30	60.29	123.29	15.83	96.15			
15239	567.46	132.45	783.53	43.73	96.11			
4241	114.51	43.66	203.36	162.90	96.11			
12360	55.02	27.32	35.03	1.44	96.11			
11687	25.88	23.50	35.95	1.69	96.11			
5492	97.03	47.49	24.35	5.81	96.11			
9671	124.41	52.83	135.25	1.91	96.11			
9410	62.57	24.27	60.98	0.84	95.98			
13105	64.62	26.94	43.02	1.19	95.98			
10659	132.22	90.74	258.54	43.13	95.94			
106	59.79	20.18	35.91	1.62	95.89			
2697	1226.39	358.41	1822.86	80.35	95.85			
10217	310.63	90.28	201.72	7.38	95.85			
22658	275.00	67.48	237.14	2.73	95.85			
3417	445.05	113.12	533.98	7.67	95.81			
15446	369.04	93.58	428.95	2.94	95.81			
2847	62.77	31.28	81.96	1.81	95.81			
2469	1383.42	482.22	963.09	26.57	95.81			
17175	619.05	156.40	867.90	59.01	95.77			
4386	56.38	26.60	45.57	0.72	95.77			
21491	110.61	27.92	90.43	1.09	95.77			
20844	843.25	294.01	1309.53	64.24	95.72			
9370	773.72	201.87	676.25	8.78	95.72			
15130	274.69	83.28	262.79	4.56	95.64			

DOM: William	Si Ali	. Ami Dis	120 Na . (NODA-EUGOVÝA		
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			5.57	99.79	
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133 66					
33.66 31.72	315.34 17.98	94.02	6.17	99.14	
	NonToxMeans  NonToxMeans  -24.28 31.63 32.82 658.73 31.52 75.65 124.16 16.70 -30.66 24.98 944.95 33.41 132.29 812.71 38.33 123.21 64.34 46.92 331.77 -8.73 94.34 23.08 384.07 140.16 75.61 212.24 5.27 673.28 34.49 68.50 642.56 793.69 310.04 35.50 873.36 97.51 231.53 60.85 33.50 36.19 75.09 124.84 99.14 39.20 19.78 1017.57 281.63 33.77 78.37 298.69 568.47 -45.88	NonTox   N	NonTiox   NonT	NonitexMeans   NonitexSDE   Nomeans   NonitexMeans   NonitexSDE   No	

TABLE SX	PAN 193 bas	The same of the sa	Awy. Doc	YY ON YOU Y SOO	921-5039XX 10. 1796397.
	NonToxMean		ToxMean		
6517	231.39	155.95	730.29	101.68	99.14
20599	22.90	12.70	74.26	5.67	99.14
	61.42	52.07	359.41	62.64	99.14
14405	459.81	287.63	2264.76	369.05	99.14
1564	38.78	169.92	459.31	64.11	99.10
16676	38.17	26.57	134.01	11.56	99.10
21695	59.83	35.43	188.55	18.05	99.10
20886	719.56	292.49	116.56	44.10	99.10
17151	16.05	62.27	445.34	138.38	99.06
770	798.22	219.65	310.69	35.90	99.06
7262	1116.47	390.83	2517.22	160.89	99.06
23981	809.28	155.43	1417.26	153.29	99.06
22552	314.65	94.11	570.75	29.08	99.06
20709	162.15	69.62	483.04	60.17	99.06
7585	-91.46	37.80	142.97	84.57	99.01
15853	5.82	59.90	258.64	131.89	99.01
22592	233.64	160.86	1028.66	111.76	98.97
4445	514.32	117.31	988.03	63.78	98.97
4086	14.01	16.98	152.91	75.32	98.97
21509	88.80	92.91	448.20	56.16	98.97
24651	100.64	23.29	204.63	19.93	98.97
7101	389.56	671.41	1218.47	165.33	98.93
15851	200.60	148.70	784.83	83.88	98.93
23769	-6.25	8.68	29.51	10.78	98.93
15504	128.87	50.45	417.46	77.64	98.93
1613	-7.12	28.04	117.88	29.33	98.93
15438	65.66	32.54	171.12	14.45	98.93
1460	198.26	83.19	563.02	70.47	98.93
13976	449.17	351.62	2551.95	498.75	98.93
20903	69.41	42.80	397.90	116.45	98.89
23123	310.66	118.21	861.54	70.50	98.89
15790	45.93	25.16	134.46	10.51	98.89
21391	213.21	127.55	742.74	58.03	98.89
455	137.60	153.63	269.32	29.16	98.89
20772	149.52	40.53	313.83	28.96	98.89
19275	726.18	191.87	1580.61	140.07	98.84
17149	81.87	40.60	328.14	60.26	98.84
19243	76.71	48.71	359.48	105.52	98.84
17197	1903.25	828.79	668.38	83.11	98.84
11891	-15.63	11.78	25.77	9.49	98.84
4640	80.30	30.25	184.62	15.77	98.80
4569	0.89	6.39	34.18	10.37	98.80
2629	25.55	23.81	70.08	4.98	98.80
18529	202.36	80.95	572.14	48.95	98.80

	PANE PANE	Series de la companya della companya	, Alty. Dod		)21-5039WO
	(s): 6,24 hrs KonToxWean:	Montando.	TomMoon !!		0. 1793397.1 1 DAGGGGG
410	1099.85	252.82	487.89	71.66	99.01
1137	58.38	18.64	128.72	40.53	97.55
18322	2669.23	812.57	1422.54	109.34	97.47
15433	67.21	32.38	147.81	13.69	97.04
8990	278.32	77.85	504.55	67.10	96.35 96.22
23115	565.35	169.43	1013.53	113.02	
1460	199.21	86.34	300.32	24.45	95.97 95.92
335	96.10	45.37	194.53	15.33	95.75
2866	637.05	212.44	1020.97	43.03	
15701	37.69	16.68	82.72	11.76	95.75 95.58
16853	67.54	23.29	107.06	8.27	
17693	1257.20	377.49	705.99	42.86	95.41
6250	490.36	103.66	731.52	54.23	95.36
19327	89.22	29.33	144.42	10.71	95.28
21977	88.79	52.26	163.28	17.00	95.11
1962	33.32	26.88	74.11	7.81	95.06
19080	75.82	57.08	219.58	56.51	95.06
13598	349.80	109.75	578.05	60.94	95.02
11524	-14.25	24.65	43.36	19.72	95.02
729	90.40	35.70	171.30	19.74	94.98
15552	175.81	40.06	237.25	9.67	94.98
4312	77.28	38.83	150.22	19.98	94.94
18996	137.86	44.69	250.58	35.37	94.85
17411	79.24	54.48	184.11	25.15	94.76
20752	13.07	11.34	26.51	2.40	94.76
11445	436.52	103.96	686.40	101.03	94.42
17755	393.23	102.51	214.27	40.93	94.42
19077	208.94	51.22	306.89	24.65	94.25
21355	375.05	118.77	619.86	88.05	94.21
6454	239.78	78.25	421.17	60.75	94.16
21092	392.44	225.02	575.95	55.98	94.12
11618	414.89	130.79	694.32	108.18	94.03
18338	72.29	20.32	112.46	9.87	94.03
15050	637.68	181.55	464.30	24.18	94.03
1608	12.70	29.99	54.74	9.39	93.99
24539	613.90	163.40	344.65	53.69	93.99
5900	265.48	65.87	137.54	40.46	93.99
13239	109.63	48.60	209.05	26.39	93.99
5163	20.12	13.08	44.33	7.38	93.82
21130	78.12	26.32	110.79	5.99	93.73
2236	140.10	38.70	215.23	16.78	93.69
5967	1225.74	339.49	1876.92	202.57	93.65
9799	145.09	50.35	241.50	35.40	93.56
16205	940.52	264.48	668.73	24.99	93.56
456	869.99	317.52	515.38	44.20	93.56
25097	4.68	10.99	25.79	8.52	93.52
12020	167.47	60.50	285.05	31.13	93.52
5924	162.21	46.91	256.59	29.67	93.52
4716	156.93	40.11	238.10	25.26	93.48
8339	432.55	130.90	704.91	90.15	93.43
5561	167.91	55.87	283.83	41.10	93.39
15112	1549.68	531.98	736.99	111.89	93.39
7278	1467.27	341.78	1077.40	67.94	93.35
7108	53.62	29.56	116.16	20.84	93.30
4956	79.01	38.21	153.60	24.20	93.30
20404	53.75	46.18	126.25	22.59	93.26

TABLE 5Y	· Pan		Atty. Dod		21-500900
ിണ്ടെണ്ടി	(13): 6, 24 hrs			Doc. N	<u>o. 1793397.</u>
dentifier:	NonToxMem.	Nontiéxse.	ToxiMeen 👙	TOXED:	LDAScore
3049	621.00	123.14	541.13	9.05	93.22
9109	1021.28	337.87	723.36	26.27	93.22
1393	1268.21	369.74	824.30	42.57	93.18
18541	1081.46	298.74	758.66	24.93	93.13
15556	208.38	83.99	333.56	45.17	93.09
4589	1213.38	369.83	790.80	42.48	93.09
22271	273.68	65.98	411.42	75.15	93.05
21423	1355.28	427.17	786.98	56.19	93.05
5506	234.14	60.71	335.18	21.90	93.05
1290	94.34	28.53	147.53	19.36	93.05
20350	155.10	50.13	248.15	31.72	93.05
714	46.67	31.34	115.67	27.05	93.05
1485	93.58	57.35	198.96	32.55	93.00
18433	19.39	46.95	105.10	24.21	93.00
17567	1185.38	364.09	750.70	33.02	93.00
24615	817.72	230.83	583.06	24.71	92.96
15742	33.17	14.60	56.07	3.60	92.96
20766	56.29	20.07	93.49	10.52	92.92
15209	164.94	33.20	220.88	12.45	92.92
20879	87.79	50.58	180.08	38.06	92.88
19408	2011.27	675.11	1014.96	97.93	92.88
1247	1309.18	501.52	569.36	138.91	92.83
15299	88.50	61.88	119.48	12.69	92.83
11377	116.76	30.96	177.28	17.37	92.79
9037	22.39	16.20	56.28	11.77	92.79
24390	162.85	113.82	331.70	49.97	92.79
1550	30.09	69.61	60.64	8.26	92.79
1300	156.68	44.76	234.60	19.19	92.75
1585	67.71	33.38	128.60	16.01	92.70
25599	56.14	20.41	91.99	8.79	92.66
17524	1173.79	285.74	801.36	115.86	92.62
15122	420.86	89.65	588.05	45.81	92.58
25369	18.36	10.68	38.74	6.19	92.58
3886	58.10	28.84	117.74	22.59	92.53
643	61.37	32.91	119.52	18.91	92.53
14003	815.86	212.90	497.74	73.28	92.49
16164	1083.28	283.92	680.99	54.84	92.49
20864	1587.98	660.11	798.40	87.84	92.45
17742	1066.26	308.06	723.12	37.02	92.45
23248	37.67	17.23	53.27	3.03	92.45
17204	1732.06	656.42	888.59	86.53	92.45
24501	525.70	117.48	664.66	34.25	92.40
14125	128.41	50.32	217.38	25.88	92.36
5968	962.02	263.60	1474.27	231.26	92.36

TABLE 5Z: Timenoink	PAN (s)): 6, 24, 163 h	\$1.0 mg	Atty. Doctet No. 44921-5039 Doct No. 17939		
	NonToxMean ·			1000	
15433	66.69	31.46	164.15	24.65	97.20
962	33.08	26.68	80.19	11.69	95.26
6122	116.83	40.09	224.79	57.88	94.96
1247	1312.82	499.50	526.34	127.30	94.87
16853	67.23	22.82	120.51	22.86	94.83
17693	1260.09	375.71	656.50	74.07	94.78
13239	108.92	47.30	236.00	58.32	94.57
15112	1553.39	530.07	717.14	110.65	94.35
18433	18.80	46.13	126.18	39.27	94.35
16121	109.21	58.36	264.16	84.47	94.18
15701	37.56	16.60	76.48	12.40	94.05
	208.57	51.01	301.25	21.97	94.01
19077			922.60	68.61	93.58
1723	1721.81	624.78		7.34	93.23
25097	4.60	10.95	24.13 1993.59	122.75	93.23
7278	1469.82	340.27			
1159	888.08	229.69	532.18	82.33	93.19
15184	-80.88	50.16	76.70	82.34	93.07
456	871.69	317.12	499.51	56.17	92.97
1608	12.56	29.97	50.60	9.98	92.93
154 <b>37</b>	38.06	21.84	118.82	46.29	92.69
225	122.71	33.55	235.76	49.22	92.51
14997	2605.00	1019.08	1218.22	195.95	92.46
15401	75.23	25.84	175.78	44.88	92.39
19408	2015.21	673.87	1049.53	100.77	92.20
18076	2552.08	1185.85	1116.73	165.36	91.90
18077	2630.74	1183.04	1067.76	130.98	91.72
15434	131.68	52.58	292.95	80.76	91.61
16211	2268.34	1131.65	761.93	145.25	91.51
11208	322.94	110.75	642.67	141.37	91.48
24651	100.37	23.09	169.86	33.73	91.48
16012	72.52	31.21	141.73	32.89	91.35
1542	928.57	263.76	548.27	84.14	91.34
14722	656.51	217.90	1314.74	367.97	91.31
4589	1215.64	368.99	748.52	72.66	91.21
17886		491.91	843.64	96.88	91.16
	1506.14 2232.91	11111.68	900.83	138.88	91.16
17829			11076.89	78.92	91.16
15673	804.12	164.51 138.49	154.79	22.22	91.09
4312	76.92				90.99
2079	303.47	81.98	400.13	28.12	90.99
18694	53.10	48.50	177.05	53.91	
18322	2673.81	811.21	1499.15	181.85	90.79
16168	350.70	206.64	479.34	84.79	90.78
17779	1958.43	783.05	911.49	158.95	90.73
8990	277.74	77.38	465.89	83.79	90.57
3434	322.35	138.05	614.67	136.42	90.57
18729	19.67	29.33	96.11	37.87	90.57
14003	817.64	211.58	458.34	85.08	90.53
22816	22.96	15.10	59.89	23.04	90.49
9799	144.50	49.47	258.44	54.08	90.49
1521	20.40	50.29	136.10	71.19	90.49
15886	302.74	61.73	436.98	44.28	90.45
16155	1084.95	423.63	632.04	54.95	90.43
1485	92.98	56.73	213.05	31.14	90.36
17204	1735.18	656.07	938.01	109.72	90.30
1203	4.95	18.70	44.90	22.64	90.27

TABLE 572:	PAN.				921-5009W@
	s): 6, 24, 168 h				lo. 1798397.1
ldendijer :	MONTOXMORA"	NonToxed	Lommeon: :	ToxSD:	
19080	75.38	56.65	202.18	64.18	90.27
1622	2078.05	898.00	838.34	144.28	90.26
17712	858.75	187.72	604.46	57.40	90.26
19407	1533.63	471.44	919.83	109.37	90.26
4280	1275.34	435.07	698.85	97.31	90.22
635	1254.34	431.22	723.36	97.99	90.17
22554	544.56	150.27	343.47	69.26	90.17
11524	-14.44	24.49	37.71	21.53	90.14
21703	16.32	12.14	42.83	13.13	90.10
14125	127.72	48.99	246.62	72.21	90.06
17480	119.30	33.27	190.90	31.79	90.01
23322	1169.31	283.61	760.72	114.86	89.96
8234	49.37	21.69	92.92	31.52	89.93
13682	176.92	61.79	309.18	50.37	89.89
11321	175.44	50.38	286.20	55.16	89.89
25253	291.91	64.62	414.09	38.27	89.71
23852	262.19	102.61	480.31	78.92	89.71.
20781	57.13	21.07	88.06	13.32	89.70
1582	16.67	13.15	45.26	13.10	89.67
24696	68.64	47.19	170.78	42.12	89.67
818	4144.91	2804.50	980.91	271.23	89.66
9109	1022.78	337.79	702.34	58.34	89.66
21708	36.51	16.01	73.22	15.22	89.63
17549	1309.92	366.25	854.17	88.86	89.61
16591	151.86	47.16	253.45	36.23	89.54
17154	198.88	57.70	280.48	33.03	89.53
14694	2332.83	1063.34	1038.43	256.02	89.48
23109	2093.27	924.06	1002.79	195.59	89.48
2236	139.93	38.69	200.68	21.94	89.48
22661	1310.36	418.55	756.78	88.01	89.48
7857	51.98	45.43	149.29	46.95	89.45
20876	1681.76	611.63	958.77	99.56	89.44
25468	2183.54	1132.38	823.42	189.02	89.44
23215	106.03	29.48	169.54	21.53	89.41
5900	265.96	65.56	144.68	40.70	89.41
1811	10.93	26.49	65.20	23.39	89.37
23709	2507.78	1197.86	1088.40	231.11	89.35
495	135.24	83.30	303.90	57.27	89.32
20998	161.29	73.65	276.37	48.32	89.32
17194	46.75	27.72	107.07	19.66	89.32
19327	88.98	29.10	144.83	20.18	89.28
18101	81.85	27.96	121.65	14.02	89.27
819	3112.24	1661.98	1015.34	283.90	89.27
3015	2325.38	988.40	1058.04	289.77	89.22
21355	374.22	118.21	598.37	91.02	89.20

	A: SEMUSTINE (s)): 163 hrs	The state of the s	Ally. Doc	144 .oki 19xl 14 .sod	921-5039W0 9. 1793397.
dentifier	NonTox(Nean :	NonToxSD	ToxMean	ToxSD.,	LDAScore,
23830	-3.74	14.74	24.13	2.44	98.46
2655	43.68	49.43	103.83	13.87	98.07
2547	15.31	164.20	55.98	7.70	97.99
21893	51.15	34.39	119.77	15.62	97.86
7806	52.07	19.62	68.71	1.17	97.73
785	1830.12	494.30	1054.17	67.70	97.69
		115.83	667.36	30.91	97.64
25705	455.94 3163.82	930.45	2122.73	41.59	97.47
22050		53.37	35.53	5.08	97.26
21443	103.90	160.21	626.66	12.41	97.13
23981	812.67		51.31	11.73	97.13
5733	12.64	47.16		3.26	97.13
3494	276.36	53.17	213.99	0.93	97.13
3901	25.65	33.31	2.82		97.13
023	364.88	77.19	291.07	3.81	97.09
8353	113.25	70.77	275.16	28.92	
3027	1129.65	333.83	1127.48	12.54	97.04
3177	3894.73	1495.61	2320.07	89.57	96.92
19398	4332.61	2167.49	2566.57	72.18	96.83
23626	71.43	37.20	159.26	19.40	96.83
8650	804.69	246.36	518.86	13.70	96.74
5627	5054.50	1946.06	3041.20	96.69	96.62
20757	413.88	222.48	607.95	51.66	96.53
2410	11.25	10.57	25.63	2.99	96.49
7274	576.90	150.70	364.54	16.30	96.44
6147	1030.83	225.21	645.26	49.87	96.32
3359	119.66	57.61	290.85	65.10	96.27
11994	104.13	23.52	63.18	4.39	96.06
7867	64.06	34.54	163.76	30.00	96.02
3701	90.19	44.20	111.89	2.06	95.93
23800	32.07	18.29	77.92	15.10	95.84
1684	2810.78	1628.26	2548.66	84.69	95.84
19162	2230.57	613.60	1498.90	56.20	95.84
14958	138.49	48.09	181.53	4.13	95.80
1454	238.93	79.65	379.87	38.25	95.76
7764	6.68	15.73	27.19	3.33	95.76
19993	2327.93	570.40	1514.68	94.53	95.76
9407	350.93	216.90	167.34	16.19	95.76
15600	772.34	211.63	480.10	25.98	95.76
22662	1137.98	135.08	116.24	1.67	95.72
			1965.70	25.18	95.63
18142	1994.46	839.22		55.91	95.59
7278	1466.77	341.68	1037.78	442.45	95.59
1685	9177.09	7104.79	4192.02		
15136	720.68	229.89	618.26	7.44	95.50
17248	2563.75	537.86	1741.86	94.90	95.46 95.46
15301	38.66	68.20	52.95	4.33	
24627	5024.80	1714.05	3187.73	133.28	95.46
16678	192.60	90.16	295.43	9.43	95.37
21798	2088.65	441.72	1574.36	40.27	95.37
3582	396.47	105.41	299.17	10.26	95.29
22618	28.62	11.98	54.72	9.80	95.24
20295	23.12	13.39	-1.42	5.25	95.20
10269	1868.08	422.77	1408.13	42.28	95.16
7975	744.31	175.27	709.93	7.00	95.12
3090	308.90	80.19	389.68	9.44	95.07
8163	105.92	55.18	246.10	47.62	95.03

TABLE SA	A: SEMUSTINE		AMY. Doc	kat No. 44	921-5009WC
Yallooogafff	(a)): 163 hrs	****		· · · Doc. N	o. 1793397.°
dendiler.	NonToxMem :	NonToxSD:-	ToxMoon. 👯		
7337	130.17	35.83	72.98	11.19	95.03
5689	12.93	20.23	44.79	8.55	94.99
22737	204.61	104.35	375.42	54.48	94.94
4640	80.47	30.73	144.33	17.03	94.82
10819	1187.21	363.05	1125.76	18.01	94.82
3269	76.54	40.97	147.76	18.49	94.77
18468	90.58	33.19	99.23	1.85	94.77
5204	39.16	12.29	53.01	1.67	94.77
19372	61.97	54.00	9.74	2.20	94.73
21628	116.51	45.00	204.96	26.35	94.69
3075	523.79	180.19	291.98	21.30	94.69
8015	52.45	36.45	80.79	2.30	94.64
20105	80.00	53.71	27.37	3.94	94.64
18830	5928.33	2277.75	3404.34	229.07	94.60
12639	1231.40	359.71	1328.85	25.82	94.60
2697	1227.29	359.86	1375.72	25.94	94.56
2326	1442.32	399.30	866.19	98.10	94.56
9180	82.53	35.16	153.13	21.13	94.47
22838	1383.85	399.86	912.16	54.21	94.47
23509	2234.19	462.51	1771.07	42.02	94.47
23709	2494.50	1202.87	2200.91	59.43	94.34
2912	2618.16	709.02	1838.26	100.99	94.34
20944	1191.93	395.05	1322.96	34.77	94.30
25589	154.92	38.08	184.54	2.96	94.30
18800	2730.47	1166.13	1296.14	149.09	94.26
2311	22.96	16.01	54.56	12.04	94.17
410	1097.48	256.27	795.24	44.26	94.17
17885	246.73	58.07	148.75	13.01	94.13
21458	229.64	104.63	360.82	32.46	94.13
22069	689.12	145.53	514.75	17.18	94.13
3584	65.13	35.08	106.58	9.75	94.13
5968	966.61	265.81	609.81	49.16	94.04
19525	27.97	21.00	56.08	10.20	94.04
18757	250.38	72.47	327.68	9.19	94.00
19768	711.98	179.77	874.96	22.13	94.00
7392	29.06	15.76	62.61	15.61	94.00
10267	2119.14	891.88	2056.03	48.77	94.00
23190	70.87	28.52	103.79	5.80	93.96
25676	218.79	80.22	97.09	19.62	93.96

	BB: SUFLADIAZI	NE	ا بالكانية ال		4X921-5009W
	ni(s): 24 hrs 7 promioxideem	1.7			No. 1796397.
cenuna	464.71	105.53	1185.18	111.81	199.83
13158	31.95	313.46	578.42	46.88	99.79
2010	445.86	80.88	792.83	41.28	99.74
5535		147.30	1395.56	106.27	99.70
564	34.77	248.64	328.14	43.97	99.70
452	989.99		113.73	16.34	99.61
450	282.32	50.39	1604.45	209.39	99.61
20700	81.27	404.57		7.25	99.57
20481	208.68	44.26	81.56 1348.56	47.39	99.53
25686	666.44	155.98	636.16		99.53
695	1559.28	402.43		43.80 49.13	99.53
5477	13.20	160.91	187.40	1	99.49
7101	352.23	77.89	621.28	16.27	
5175	318.83	49.56	153.62	12.70	99.49
20699	90.33	220.48	1192.64	109.71	
6478	22.55	383.52	251.88	88.78	99.44
25	117.71	45.62	14.15	2.76	99.44
345	151.16	54.99	17.82	6.85	99.44
3987	192.50	47.15	465.13	55.22	99.44
21947	752.67	136.25	319.39	29.30	99.40
7291	1389.57	412.30	482.86	101.58	99.40
238	227.68	51.22	496.72	69.45	99.36
20887	794.18	312.69	103.79	42.68	99.36
558	203.57	58.77	553.28	64.74	99.36
7661	255.29	58.73	540.05	70.79	99.36
6947	320.42	79.17	77.47	19.86	99.36
6204	752.56	177.92	1702.82	145.45	99.36
18906	255.45	83.89	55.16	8.36	99.36
17357	269.77	81.23	2.53	12.73	99.31
17514	859.90	174.50	359.55	37.03	99.31
16416	22.83	18.51	84.23	3.30	99.27
2085	688.34	191.75	339.59	20.82	99.27
7101	380.51	644.25	3330.36	683.13	99.27
18278	1896.72	507.81	639.93	108.91	99.27
25718	392.38	80.21	851.19	103.08	99.23
478	352.13	79.44	88.92	22.22	99.23
9621	292.01	59.49	563.88	51.66	99.23
23596	1491.59	375.55	487.23	90.69	99.23
20884	637.92	258.49	19.93	9.59	99.23
10016	207.78	73.01	590.63	39.54	99.23
7665	282.42	91.44	861.31	113.78	99.19
172	661.53	177.31	345.51	23.33	99.19
18597	521.43	162.83	914.02	31.92	99.19
1222	545.41	102.20	1014.25	79.67	99.19
20886	719.84	291.88	50.84	41.81	99.19
1884	178.24	37.12	331.54	22.95	99.19
1422	297.77	88.40	75.68	10.49	99.19
7104	449.21	107.90	1060.31	149.95	99.14
17907	1319.66	300.38	623.40	49.85	99.14
17284	229.07	60.08	77.02	16.01	99.14
		87.32	716.17	136.32	99.14
8981 4451	142.60	64.21	76.77	27.51	99.14
	290.54			35.67	99.14
15955	751.14	196.31	146.28	56.12	99.10
16419	306.72	58.43	562.97		
16627	97.46	34.41	213.43	14.92	99.10
22592	234.18	163.38	903.10	59.07	99.10
19824	224.78	67.21	32.81	20.42	199.10

	B: SUFLADIAZI		· Aligy. D	ocka) (yo. 4	14021-E000144
Minepolin	((s): 24 hrs			DÓG.	No. 1790397.
denuiter	Nonioxinem (2): 542 mg	- INOULOXEDA "	I COMMERCIAL	100000000000000000000000000000000000000	
9905	674.04	138.26	279.49	36.23	199.10
5002	139.13	94.64	580.42	72.97	99.10
112	157.04	34.99	39.35	14.07	99.10
5193	172.71	60.15	463.80	40.10	99.10
1205	596.04	192.04	155.98	25.86	99.10
7535	246.41	64.45	529.14	76.63	99.06
360	330.80	65.83	138.60	23.78	99.06
667	742.84	172.36	1513.63	136.63	99.06
20056	309.09	59.92	81.20	26.34	99.06
1081	352.98	113.10	740.48	49.43	99.06
916	738.87	186.54	212.10	43.88	99.06
801	97.49	29.02	212.29	21.51	99.06
25317	15.28	68.43	72.14	39.26	99.06
4501	524.69	114.42	955.66	63.01	99.06
9508	100.97	41.09	11.48	5.01	99.06
9769	63.82	80.07	487.54	129.83	99.01
5546	473.54	139.58	193.05	34.65	99.01
0878	951.05	250.12	1714.95	105.09	99.01
0819	1183.30	358.76	2036.62	53.76	99.01
8507	701.19	159.97	1396.26	108.52	98.97
915	87.36	36.13	206.79	19.36	98.97
5003	34.41	91.73	507.05	83.25	98.97
2583	369.08	148.55	848.08	90.80	98.97
620	529.25	111.98	1071.29	125.35	98.97
9298	364.57	96.71	819.01	116.31	98.97
614	478.70	150.19	97.33	35.20	98.97
5986	320.13	83.84	46.97	24.78	98.97
3646	727.39	191.95	1634.83	174.87	98.93
240	184.44	53.70	394.90	58.94	98.93
6675	33.18	31.66	226.87	74.32	98.93
1968	297.46	82.47	94.28	17.16	98.93
7540	561.49	199.04	1593.99	230.39	98.93
9161	1068.85	309.26	2020.78	120.96	98.93
3924	208.78	62.50	465.78	53.25	98.93
482	227.17	73.35	67.19	17.67	98.93
199	611.50	182.04	158.54	39.19	98.93
17	21.06	17.59	-12.77	2.61	98.89
2536	1715.17	473.49	3319.42	278.50	98.89
7100	819.32	235.74	1519.10	85.28	98.89
4332	537.23	133.39	1143.62	152.21	98.89
232	365.72	93.58	160.50	9.58	98.89
0561	78.49	36.71	188.47	14.45	98.89
5098	185.41	66.49	32.78	6.96	98.89
3401	14.24	21.17	144.41	52.94	98.89

WO 02/095000

TABLE 560 Timepoint(	: SULFADÍAZIN 3): 3,6 hrs	<b>企</b> 。	Ally: Docket No. 44921-5089X Doc. No. 1793397		
ldentifier:	NonToxMean &	NonToxSD 🚟	Tommean `	ToxSD .	LDAScore
2459	327.82	133.31	1186.99	180.16	99.44
985	118.91	23.49	435.93	226.01	99.36
6054	24.46	35.46	463.67	144.11	99.18
21546	-60.81	78.07	461.08	143.78	99.14
11259	101.27	105.67	1117.26	304.40	99.05
223	10.81	16.39	121.57	31.76	99.05
13745	27.17	26.30	236.39	104.08	99.05
8304	263.66	68.46	104.04	18.52	99.05
2154	54.19	102.13	766.15	271.93	98.93
5585	635.65	314.22	2778.88	622.70	98.80
17506	33.02	28.55	170.00	54.28	98.80
2153	179.20	124.41	1217.91	474.19	98.75
23872	47.29	87.73	387.10	112.60	98.71
15301	35.41	55.60	466.69	146.16	98.67
15192	164.68	117.96	858.98	208.00	98.67
17327	209.40	86.17	531.34	65.50	98.62
15300	131.96	108.91	967.46	264.07	98.62
7700	80.97	38.43	377.20	103.65	98.58
13930	128.33	69.33	520.74	123.87	98.54
10659	128.90	79.62	602.71	192.55	98.54
7197	195.08	78.35	557.25	113.13	98.37
19060	150.81	79.81	399.19	134.24	98.32
15299	86.11	52.88	422.06	161.10	98.28
355	10.95	13.39	102.92	40.18	98.28
7196	178.85	80.11	517.52	81.96	98.28
25730	196.00	64.30	513.70	106.95	98.24
5356	-12.88	18.58	46.77	19.05	98.19
19657	3.19	17.88	84.23	34.61	98.15
	-12.38	22.65	46.65	25.44	98.11
25084		53.51	250.18	120.56	98.02
1501	58.67		240.27	66.39	197.98
17908	62.13	58.89			97.94
16314	43.27	38.63	240.75	61.16	97.94
2555	95.85	44.10	292.92	71.25 26.54	97.89
21682	-35.82	31.41	50.22	41.90	97.89
5384	40.19	41.73	218.67		
22626	83.22	71.71	465.98	192.17	97.85
11483	64.30	44.10	197.71	47.03	97.85
16053	229.00	93.51	658.28	200.15	97.81
4045	93.63	47.19	244.15	46.42	97.81
804	454.28	182.83	934.61	83.33	97.76
3874	118.37	60.25	305.67	73.98	97.76
23314	62.72	247.80	1403.77	543.62	97.76
21	69.73	31.90	161.45	47.41	97.76
22681	218.11	182.12	981.97	310.38	97.72
7471	219.05	63.97	421.52	40.74	97.72
13240	475.09	362.91	2390.71	790.75	97.68
1340	192.32	49.81	108.32	15.13	97.64
16312	54.74	33.76	197.76	42.24	97.59
11876	107.52	40.42	242.85	40.07	97.46
20161	38.17	33.28	150.28	32.80	97.46
15996	49.41	38.61	170.53	42.38	97.42
12978	105.07	45.80	334.16	95.16	97.42
14179	49.88	26.28	132.84	24.19	97.38
12534	87.91	36.00	223.28	65.14	97.38
21779	147.51	35.16	262.54	35.74	97.29

TABLE 500	C: SULFADIAZIN	Ē	Atty. Dog		921-5039\
	(s)): 3, 6 hrs	\$.			<u>lo. 1793397</u> .
dendifer	MonToxMean; "	NonToxSD 🔅	ToxMean ·	askol	LDAScore
11979	210.67	69.55	85.98	17.52	97.25
7161	1152.09	406.69	2288.34	334.10	97.25
11434	326.14	103.27	663.21	132.01	97.12
5844	124.34	58.18	17.91	11.06	97.12
22	53.08	46.64	206.89	59.81	97.12
3464	165.60	53.31	329.80	63.59	97.08
3434	322.01	136.13	755.72	108.22	97.08
22248	243.91	118.15	625.27	179.46	97.03
9423	937.34	251.31	1765.27	274.26	97.03
21683	34.05	23.48	105.62	26.60	96.95
16527	51.16	16.84	24.15	3.25	96.90
4512	1.04	32.53	73.93	19.11	96.86
1725	81.40	55.94	245.03	66.25	96.78
21239	114.57	59.35	256.57	37.93	96.78
17329	213.88	104.30	531.44	105.41	96.65
13467	37.67	24.44	111.98	36.67	96.56
15089	179.58	77.35	389.68	58.33	96.56
3454	86.52	35.67	198.35	31.79	96.47
20523	547.69	149.96	965.84	112.80	96.43
15058	197.84	70.39	377.22	46.94	96.35
14492	613.89	164.78	1076.44	162.75	96.35
12999	128.09	33.18	203.14	17.45	96.30
22967	163.84	54.49	255.51	13.19	96.26
18008	1.51	16.75	42.22	12.38	96.26
24640	177.45	57.95	357.46	73.86	96.26
7913	55.20	20.69	108.16	18.70	96.17
2625	141.92	31.66	87.09	9.03	96.17
3049	201.89	100.36	461.30	105.24	96.17
18011	31.95	28.60	105.17	25.57	96.13
23834	71.40	23.40	137.38	25.69	96.09
23634 19818	32.37	21.21	85.97	15.20	96.04
12673	37.51	22.58	99.74	25.41	196.04
		15.53	56.38	6.78	196.00
15377	25.91			81.74	96.00
12745	330.67	112.37	623.69 327.97	47.79	96.00
14111	150.33	66.27	356.49	80.44	96.00
11157	681.75	178.91	**	54.48	95.96
23166	134.04	62.51	266.66		
3519	375.54	125.21	690.15	176.36	95.87
16124	420.65	131.40	193.12	32.21	95.83
17800	204.49	42.25	108.97	22.01	95.79
3639	368.08	97.97	620.44	125.57	95.79
25090	83.00	43.32	203.07	48.58	95.79
15191	2005.55	1208.87	3819.43	343.39	95.74
7469	286.95	67.51	149.39	36.61	95.70
21238	-17.22	39.01	55.57	20.45	95.70

## WE CLAIM:

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- 1. A method of predicting at least one toxic effect of a compound, comprising:
- (a) preparing a gene expression profile of a tissue or cell sample exposed to the compound; and
- 5 (b) comparing the gene expression profile to a database comprising at least part of the data or information of Tables 1-5.
  - 2. A method of claim 1, wherein the gene expression profile prepared from the tissue or cell sample comprises the level of expression for at least one gene.
- 3. A method of claim 2, wherein the level of expression is compared to a Tox Mean and/or NonTox Mean value in Tables 5-5CC.
- 4. A method of claim 3, wherein the level of expression is normalized prior to comparison.
  - 5. A method of claim 1, wherein the database comprises substantially all of the data or information in Tables 5-5CC.
- 20 6. A method of predicting at least one toxic effect of a compound, comprising:
  - (a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 1-5; wherein differential expression of the genes in Tables 1-5 is indicative of at least one toxic effect.
- 25 7. A method of predicting the progression of a toxic effect of a compound, comprising:
  - (a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 1-5; wherein differential expression of the genes in Tables 1-5 is indicative of toxicity progression.
  - 8. A method of predicting the renal toxicity of a compound, comprising:
    - (a) detecting the level of expression in a tissue or cell sample exposed to the

compound of two or more genes from Tables 1-5; wherein differential expression of the genes in Tables 1-5 is indicative of renal toxicity.

- 9. A method of identifying an agent that modulates the onset or progression of a toxic response, comprising:
  - (a) exposing a cell to the agent and a known toxin; and
  - (b) detecting the expression level of two or more genes from Tables 1-5; wherein differential expression of the genes in Tables 1-5 is indicative of toxicity.
- 10. A method of predicting the cellular pathways that a compound modulates in a cell, comprising:
  - (a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 1-5; wherein differential expression of the genes in Tables 1-5 is associated the modulation of at least one cellular pathway.

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- 11. The method of any one of claims 6-10, wherein the expression levels of at least 3 genes are detected.
- 12. The method of any one of claims 6-10, wherein the expression levels of at least 4 genes are detected.
  - 13. The method of any one of claims 6-10, wherein the expression levels of at least 5 genes are detected.
- 25 14. The method of any one of claims 6-10, wherein the expression levels of at least 6 genes are detected.
  - 15. The method of any one of claims 6-10, wherein the expression levels of at least 7 genes are detected.

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16. The method of any one of claims 6-10, wherein the expression levels of at least 8 genes are detected.

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- 17. The method of any one of claims 6-10, wherein the expression levels of at least 9 genes are detected.
- 5 18. The method of any one of claims 6-10, wherein the expression levels of at least 10 genes are detected.
  - 19. A method of claim 6 or 7, wherein the effect is selected from the group consisting of nephritis, kidney necrosis, glomerular and tubular injury, and focal segmental glomerulosclerosis.
  - 20. A method of claim 8, wherein the renal toxicity is associated with at least one kidney disease pathology selected from the group consisting of nephritis, kidney necrosis, glomerular and tubular injury, and focal segmental glomerulosclerosis.

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- 21. A method of claim 10, wherein the cellular pathway is modulated by a toxin selected from the group consisting of cephaloridine, cisplatin, puromycin aminonucleoside (PAN), bromoethylamine hydrobromide (BEA), gentamicin, ifosfamide, cyclophosphamide, carboplatin, AY-25329, indomethacin, acyclovir, citrinin, mercuric chloride, diflunisal, cidofovir, pamidronate, lithium, hydralazine, colchicine, sulfadiazine, and adriamycin.
  - 22. A set of at least two probes, wherein each of the probes comprises a sequence that specifically hybridizes to a gene in Tables 1-5.

- 23. A set of probes according to claim 22, wherein the set comprises probes that hybridize to at least 3 genes.
- 24. A set of probes according to claim 22, wherein the set comprises probes that30 hybridize to at least 5 genes.
  - 25. A set of probes according to claim 22, wherein the set comprises probes that

hybridize to at least 7 genes.

26. A set of probes according to claim 22, wherein the set comprises probes that hybridize to at least 10 genes.

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- 27. A set of probes according to any one of claims 22-26, wherein the probes are attached to a solid support.
- 28. A set of probes according to claim 27, wherein the solid support is selected from 10 the group consisting of a membrane, a glass support and a silicon support.
  - 29. A solid support comprising at least two probes, wherein each of the probes comprises a sequence that specifically hybridizes to a gene in Tables 1-5.
- 15 30. A solid support of claim 29, wherein the solid support is an array comprising at least 10 different oligonucleotides in discrete locations per square centimeter.
  - 31. A solid support of claim 29, wherein the array comprises at least about 100 different oligonucleotides in discrete locations per square centimeter.

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- 32. A solid support of claim 29, wherein the array comprises at least about 1000 different oligonucleotides in discrete locations per square centimeter.
- 33. A solid support of claim 29, wherein the array comprises at least about 10,000
   different oligonucleotides in discrete locations per square centimeter.
  - 34. A computer system comprising:
  - (a) a database containing information identifying the expression level in a tissue or cell sample exposed to a renal toxin of a set of genes comprising at least two genes in Tables 1-5; and
    - (b) a user interface to view the information.

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- 35. A computer system of claim 34, wherein the database further comprises sequence information for the genes.
- 36. A computer system of claim 34, wherein the database further comprises
  5 information identifying the expression level for the set of genes in the tissue or cell sample before exposure to a renal toxin.
  - 37. A computer system of claim 34, wherein the database further comprises information identifying the expression level of the set of genes in a tissue or cell sample exposed to at least a second renal toxin.
  - 38. A computer system of any of claims 34-37, further comprising records including descriptive information from an external database, which information correlates said genes to records in the external database.

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- 39. A computer system of claim 38, wherein the external database is GenBank.
- 40. A method of using a computer system of any one of claims 34-37 to present information identifying the expression level in a tissue or cell of at least one gene in Tables 1-5, comprising:

comparing the expression level of at least one gene in Tables 1-5 in a tissue or cell exposed to a test agent to the level of expression of the gene in the database.

- 41. A method of claim 40, wherein the expression levels of at least two genes are compared.
  - 42. A method of claim 40, wherein the expression levels of at least five genes are compared.
- 30 43. A method of claim 40, wherein the expression levels of at least ten genes are compared.

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- 44. A method of claim 40, further comprising the step of displaying the level of expression of at least one gene in the tissue or cell sample compared to the expression level when exposed to a toxin.
- 5 45. A method of claim 9, wherein the known toxin is a renal toxin.

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- 46. A method of claim 42, wherein the renal toxin is selected from the group consisting of cephaloridine, cisplatin, puromycin aminonucleoside (PAN), bromoethylamine hydrobromide (BEA), gentamicin, ifosfamide, cyclophosphamide,
   10 carboplatin, AY-25329, indomethacin, acyclovir, citrinin, mercuric chloride, diflunisal, cidofovir, pamidronate, lithium, hydralazine, colchicine, sulfadiazine, and adriamycin.
  - 47. A method of any one of claims 6-10, wherein nearly all of the genes in Tables 1-5 are detected.

48. A method of claim 47, wherein all of the genes in at least one of Tables 5-5CC are detected.

- 49. A kit comprising at least one solid support of any one of claims 29-33 packaged20 with gene expression information for said genes.
  - 50. A kit of claim 49, wherein the gene expression information comprises gene expression levels in a tissue or cell sample exposed to a renal toxin.
- 25 51. A kit of claim 50, wherein the gene expression information is in an electronic format.
  - 52. A method of any one of claims 6-10, wherein the compound exposure is *in vivo* or *in vitro*.
  - 53. A method of any one of claims 6-10, wherein the level of expression is detected by an amplification or hybridization assay.

- 54. A method of claim 53, wherein the amplification assay is quantitative or semiquantitative PCR.
- 5 55. A method of claim 53, wherein the hybridization assay is selected from the group consisting of Northern blot, dot or slot blot, nuclease protection and microarray assays.
  - 56. A method of identifying an agent that modulates at least one activity of a protein encoded by a gene in Tables 1-5 comprising:
- 10 (a) exposing the protein to the agent; and

- (b) assaying at least one activity of said protein.
- 57. A method of claim 56, wherein the agent is exposed to a cell expressing the protein.
- 58. A method of claim 57, wherein the cell is exposed to a known toxin.
- 59. A method of claim 58 wherein the toxin modulates the expression of the protein.